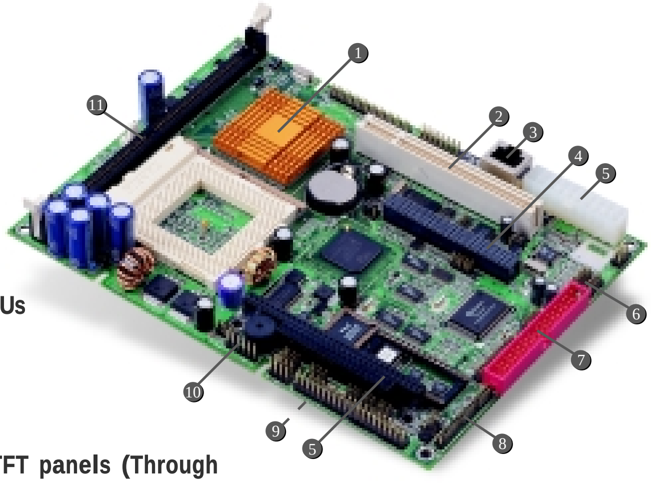
PCM-6896

FC/Socket 370 Compact Board

with LCD, Ethernet, Audio, AGP 2X, SSD/Compact Flash, PC/104, PC/104 Plus, and 4 USB Ports

❶ Intel® 815E Chipset
❷ PCI expansion slot
❸ 100Base-T Fast Ethernet Connector
❹ PC/104 & PC/104+ Connector
❺ ATX Power Connector
❻ LAN LED Connector
❼ IDE Connector (ATA 100)
❽ FDD Connector
❾ Socket for Compact Flash (Back)
❿ IR Connector
⓫ 168Pin DIMM Socket up to 256MB (PC-100/133 supported)



Features

- **Supports both Intel® FC-370 Pentium® III and Celeron™ CPUs**
- **High Speed AGP 2X for VGA display**
- **One 10/100Base-T Fast Ethernet**
- **Supports H/W status monitoring**
- **Integrated AC-97 2.1 SoundBlaster compatible 3D Audio**
- **Onboard Intel 815E controller supports 18/24/36/48-bit TFT panels (Through DVI/DVO module)**
- **Supports both DiskOnChip® (SSD) and Compact Flash data storage**
- **DVI/DVO interface onboard**
- **Four USB Ports**

Specifications

General Functions

CPU	Intel® FC-370 Pentium® III and Celeron™ CPUs (with system bus frequencies of 66/100/133 MHz)
CPU type	Intel® Socket 370
BIOS	Award 2 MB FLASH BIOS
Chipset	Intel® 815E
I/O Chipset	ITE-8712. Fully 16-bit I/O decoded. Winbond 83977EF as 2'nd SIO for COM3, COM4 port
ISA bus interface	Winbond W83626 LPC to ISA bridge
Memory	Onboard One 168-pin DIMM socket supports up to 256MB SDRAM (PC -100/133 supported)
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/100 mode with data transfer rate up to 100 MB/sec.
FDD interface	Supports up to two floppy disk drives, 5.25" (360 KB and 1.2 MB) and /or 3.5" (720 KB, 1.44 MB and 2.88 MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Connector	One 13*2 2.0mm pin header
Serial port	Three RS-232 serial ports, can be configured as COM1, COM2, COM3, COM4, or disabled individually and one RS-232/422/485 (COM2). And either COM1, COM2 can be S/W configurable to support Ring wake up function and COM3, COM4 provide the option to select 12V/RING function by jumper setting (16C550 equivalent)
IR interface	One IrDA Tx / Rx header supports (FIR/SIR, IrDA 1.0 spec)
KB/PS2 Mouse connector	A 7-pin (4*2-1) pin header supports PC/AT Key board PS/2 mouse and Wake on KBD function
USB connectors	Two 5 x 2 header onboard supports four USB ports
Front Panel Connector	Provide the signals of RSTIN, HDD LED, Buzzer and Intrude Alarm input
GPIO port	Support 4 general purpose I/O each with TTL level interface
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Supports Win95, Win3.1 Software selectable time-out interval (1 sec. ~ 255 min., 1 min./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports AT/ATX power supply. I/O peripheral device support power saving and doze/standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Embedded in ITE 8712 supports power supply voltages and temperatures monitoring

Flat Panel/CRT Interface

VGA Chipset	Intel® 815E
Display memory	Share system memory up to 4 MB (MAX)
Display type	Supports non-interlaced CRT and upto 18/24/36/48-bit LCD (TFT LCD only), Can display both CRT and Flat Panel simultaneously. Requires either TTL, Panel Link or LVDS modules
Resolution	Up to 1024 X 768 @ 256 K colors

Audio Interface

Chipset	Intel® 815E (AGP 2X)
Codec	ALC 200
Interface	One 7 X 2 Pin 2.0mm pin header(pin assignment same as GENE-4310) for MIC_In, LINE_In/Out, SPK_Out, CD_In

Ethernet Interface

Chipset	Intel® 815E(Built-in)
Ethernet interface	One 10/100Base-T RJ-45 connector

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

CFD interface

One Compact Flash Socket supports data storage

Digital I/O interface

Onboard offering one pin header 4*2 pin 2.00mm

Expansion Interface

PC/104 & PC/104 Plus connectors	One 16-bit 104-pin and one 32-bit 120-pin connectors onboard for expansion.
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V),+3.3 V, -5 V, -12 V, -3.3 V
Operating temperature	32 to 140º F (0 to 60º C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

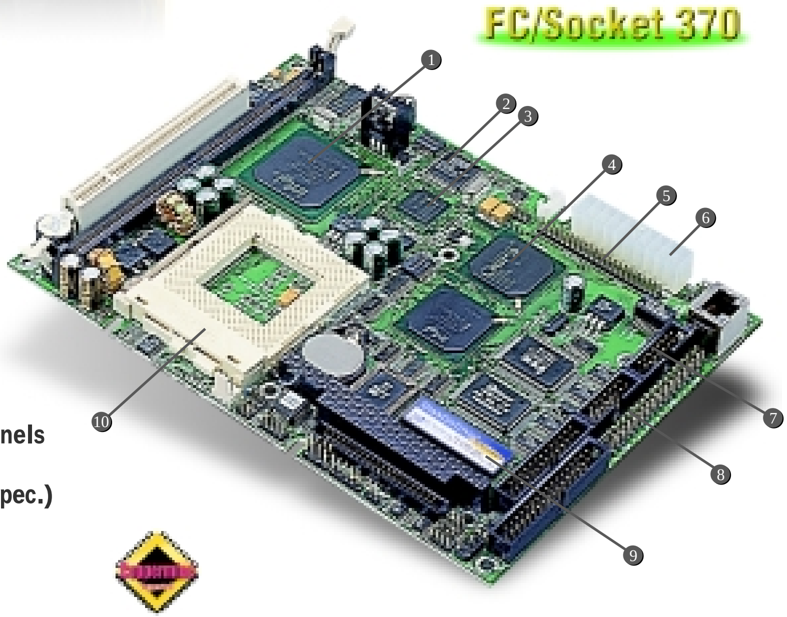
* Please refer to our website for detailed power consumption information.

Note: Supports WOL and optionally supports Alarm on Lan (AOL).

PCM-6890B

FC/Socket 370 Compact Board

with LCD, Ethernet, Audio, & 4 COMs



❶ Intel 440BX Chipset
❷ ESS Solo-1 PCI 3D Audio Chip
❸ Intel 82559GD 10/100Base-T Fast Ethernet Controller
❹ C&T 69000 LCD Controller w/2MB SDRAM
❺ Flat Panel Connector
❻ ATX Power Connector
❼ CRT Connector
❽ RS-232 x 3, RS-232/422/485 x 1
❾ Socket for DiskOnChip®
❿ Intel 370-pin Socket

Features

- **Supports Intel FC-370 Pentium III, Celeron™, and compatible CPUs**
- **C&T69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible PCI 3D Audio**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**
- **Supports Wake on Lan, and Wake on KBD**

Specifications

General Functions

CPU	Intel FC-370 Pentium III (Coppermine), Celeron ™ , and compatible CPUs (with system bus frequencies of 66/100 MHz)
CPU type	Intel Socket 370
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	ITE IT8661F/Winbond W83977EF. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx Header
KB/Mouse connector	8-pin (4 x 2) connector supports PS/2 keyboard and mouse
USB connectors	One 4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (1~255 sec. 1 sec/step or 1~255 min., 1 min/step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97 and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages and temperatures monitoring

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

PCI Audio Interface

Chipset	ESS Solo-1 PCI 3D Audio, Wave-Table Synthesis, full-duplex support enables simultaneous record and playback

Ethernet Interface

Chipset	Intel 82559GD 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information

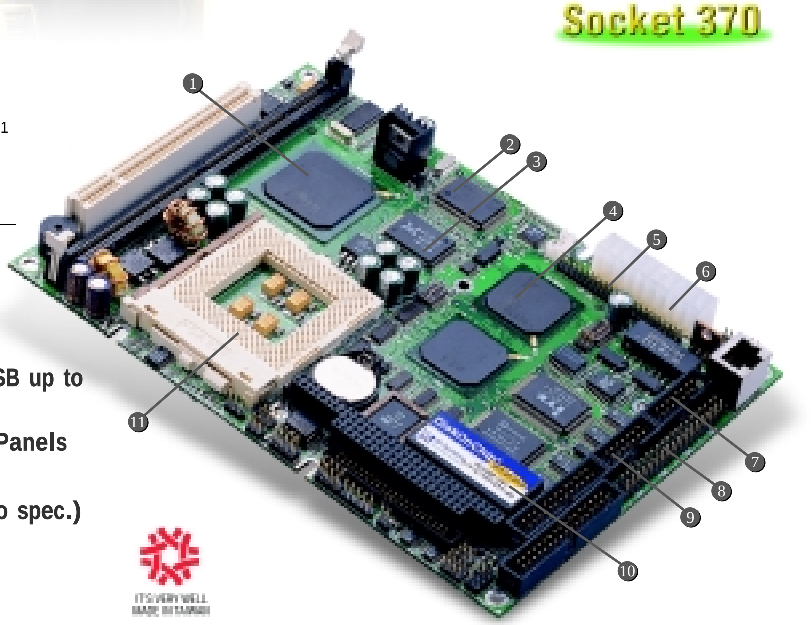
PCM-6890

Socket 370 Compact Board

with LCD, Ethernet, Audio, & 4 COMs

Socket 370

① Intel 440BX Chipset
② Creative ES1373 PCI 3D Audio Chip
③ 10/100Base-T Fast Ethernet Controller
④ C&T 69000 LCD Controller w/2MB SDRAM
⑤ Flat Panel Display Connector
⑥ ATX Power Connector
⑦ CRT Connector
⑧ RS-232 x 3, RS-232/422/485 x 1
⑨ Audio Interface
⑩ Socket for DiskOnChip®
⑪ Intel 370-pin Socket



Features

- **Supports Intel Socket 370 Celeron™ CPU with FSB up to 100MHz**
- **C&T69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible PCI 3D Audio**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	Intel Celeron™ and compatible CPUs (with system bus frequencies of 66/100 MHz)
CPU type	Intel Socket 370
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	ITE IT8661F/Winbond W83977TF. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx Header
KB/Mouse connector	8-pin connector supports PS/2 keyboard and mouse
USB connectors	One 4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (1~255 sec. 1 sec/step or 1~255 min., 1 min/step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97 and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages and temperatures monitoring

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

PCI Audio Interface

Chipset	Creative ES1373
Wave-Table synthesis	32-voice polyphony and multi-timbral capability
3D audio	Support for Microsoft® DirectSound® and DirectSound 3D audio technology in two-speaker mode (requires Microsoft DirectSound 3D supported software titles)
16-bit stereo digital audio	Full-duplex support enables simultaneous record and playback for Internet communications software

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

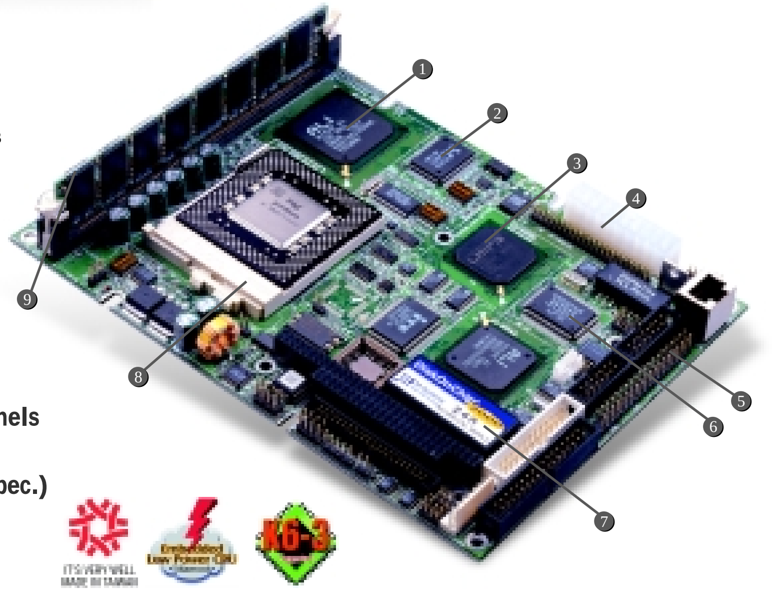
* Please refer to our website for detailed power consumption information

PCM-5896

Super 7 Compact Board

with LCD, Ethernet, Audio, & 4 COMs

❶ ALi M1541/1543 Chipset
❷ 10/100Base-T Fast Ethernet Controller
❸ C&T 69000 LCD Controller w/2MB SDRAM
❹ ATX Power Connector
❺ RS-232 x 3, RS-232/422/485 x 1
❻ Creative ES1373 PCI 3D Audio Chip
❼ Socket for DiskOnChip®
❽ Intel Socket 7 Supports 100MHz FSB CPUs
❾ DIMM Socket Supports up to 256MB SDRAM



Features

- 66/100MHz FSB supports AMD K6-3 CPUs
- Supports Intel Tillamook low power CPUs
- C&T 69000 LCD controller supports 36-bit TFT Panels
- 10/100Base-T Fast Ethernet
- Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible PCI 3D Audio
- Supports DiskOnChip® (SSD) up to 288MB
- Supports Wake On Lan

Specifications

General Functions

CPU	Intel Pentium MMX 166~266 MHz, AMD K6-2/K6-3 266~450 MHz, Cyrix/IBM 6X86MX-PR166~266GP/M2 300 MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	ALi 1541/1543
I/O Chipset	ALi 1543/ITE IT8661F. Fully 16-bit I/O decoded
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	8-pin connector supports PC/AT keyboard and PS/2 mouse
USB connectors	One 4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (1~255 sec. 1 sec/step or 1~255 min., 1 min/step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97 and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages and temperatures monitoring

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

PCI Audio Interface

Chipset	Creative ES1373
Wave-Table synthesis	32-voice polyphony and multi-timbral capability
3D audio	Support for Microsoft® DirectSound® and DirectSound 3D audio technology in two-speaker mode (requires Microsoft DirectSound 3D supported software titles)
16-bit stereo digital audio	Full-duplex support enables simultaneous record and playback for Internet communications software

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

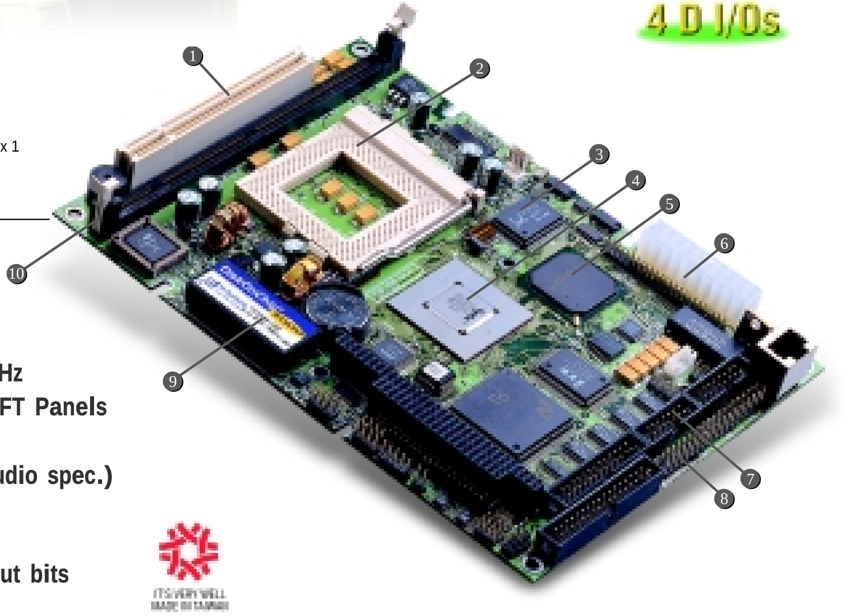
* Please refer to our website for detailed power consumption information.

PCM-4896

NS Geode Series Compact Board

with LCD, Ethernet, Audio, 4 COMs, & 4 D I/O

❶ PCI Slot
❷ NS Geode Series CPU socket
❸ 10/100Base-T Fast Ethernet Controller
❹ NS Cs5530A Chipset
❺ C&T 69000 LCD Controller w/2MB SDRAM
❻ ATX Power Connector
❼ Audio Interface
❽ RS-232 x 3, RS-232/422/485 x 1
❾ Socket for DiskOnChip®
❿ DIMM Socket Supports up to128MB SDRAM



Features

- Supports NS Geode Series CPUs up to 300MHz
- C&T 69000 LCD controller supports 36-bit TFT Panels
- 10/100Base-T Fast Ethernet
- Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio
- Supports DiskOnChip® (SSD) up to 288MB
- 4 TTL digital input bits & 4 TTL digital output bits

Specifications

General Functions

CPU	NS Geode Series processor 200~300MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	National NS97317/ITE IT8661F. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	8-pin connector supports PC/AT keyboard and PS/2 mouse
USB connectors	4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset or IRQ15. Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97 and modem ring-in functions. I/O peripheral devices support power saving and doze/standby modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and up to 36-bit LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Audio Interface

Chipset	NS CS5530A
16 stereo digital audio	Full-duplex support enables simultaneous record and playback for Internet communications software

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Digital I/O Interface

4 TTL digital input bits & 4 TTL digital output bits

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

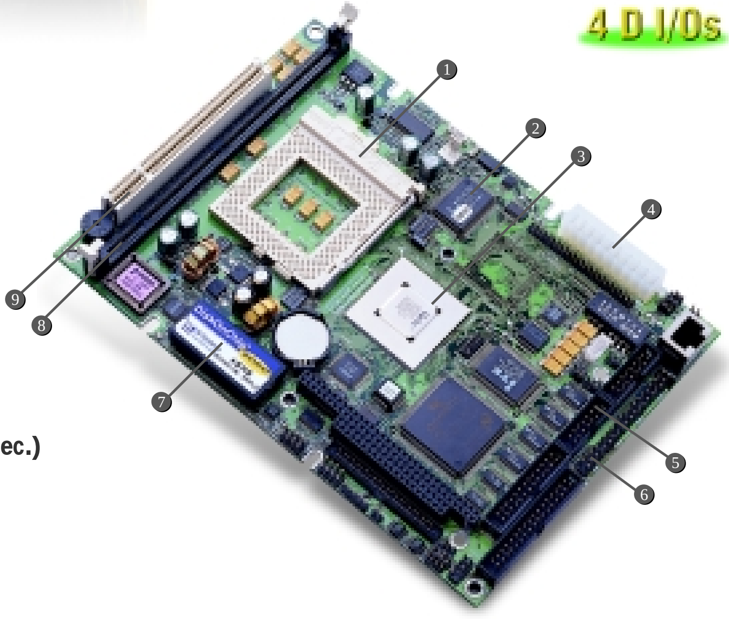
* Please refer to our website for detailed power consumption information.

PCM-4896L

NS Geode Series Compact Board

with LCD, Ethernet, Audio, 4 COMs, & 4 D I/O

4 D I/Os



❶ NS Geode Series CPU socket
❷ 10/100Base-T Fast Ethernet Controller
❸ NS Cs5530A Chipset
❹ ATX Power Connector
❺ Audio Interface
❻ RS-232 x 3, RS-232/422/485 x 1
❼ Socket for DiskOnChip®
❽ DIMM Socket Supports up to 128MB SDRAM
❾ PCI Slot

Features

- Supports NS Geode Series CPUs up to 300MHz
- 10/100Base-T Fast Ethernet
- Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio
- Supports DiskOnChip® (SSD) up to 288MB
- 4 TTL digital input bits & 4 TTL digital output bits

Specifications

General Functions

CPU	NS Geode Series processor 200~300 MHz
CPU type	Intel Socket 7
BIOS	Award 256 KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	National NS97317/ITE IT8661F. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 128 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	8-pin connector supports PC/AT keyboard and PS/2 mouse
USB connectors	4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset or IRQ15. Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97, LAN wake up, and modem ring-in functions. I/O peripheral devices support power saving and doze/ standby modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	NS CS5530A
Display memory	UMA supports up to 4MB display memory
Display type	Supports CRT and 18-bit TFT displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Audio Interface

Chipset	NS CS5530A
16-bit stereo digital audio	Full-duplex support enables simultaneous record and playback for Internet communications software

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Digital I/O Interface

4 TTL digital input bits & 4 Open Collector digital output bits

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI slot	One 32-bit PCI slot onboard

Mechanical and Environmental

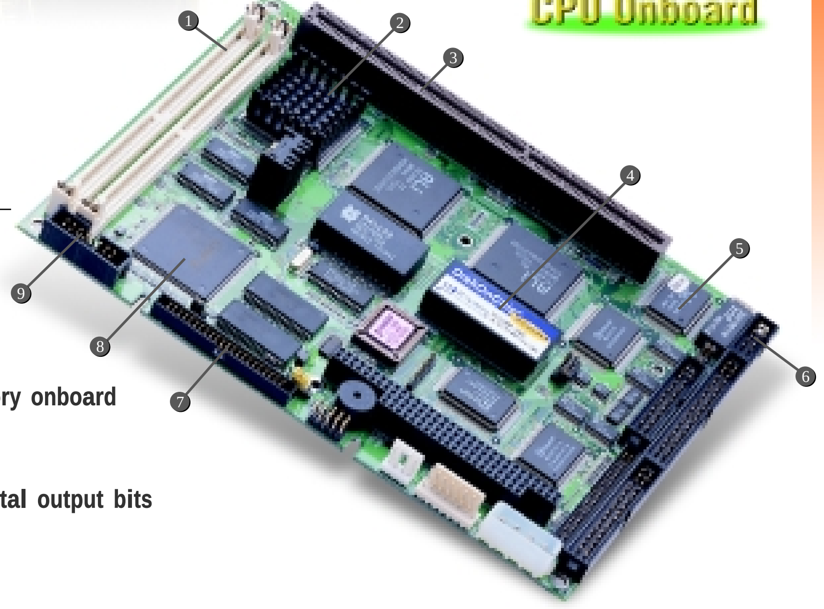
Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

PCM-4894

486DX5-133 Compact Board with LCD, Ethernet, 4 COMs, & 4 D I/O

CPU Onboard



- ❶ SIMM Socket x 2 support up to 128 MB Memory
- ❷ 486DX5-133 CPU (SQFP)
- ❸ PCI/ISA Slot
- ❹ Socket for DiskOnChip®
- ❺ 10Base-T Ethernet Controller
- ❻ 10Base-T Ethernet Connector
- ❼ Flat Panel Display Connector
- ❽ C&T 65550 Flat Panel/CRT VGA Controller
- ❾ CRT Connector

Features

- **Onboard AMD 486DX5-133 CPU (SQFP)**
- **C&T 65550 LCD controller with 2MB EDO memory onboard**
- **10Base-T Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **4 TTL digital input bits & 4 Open Collector digital output bits**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	AMD 486DX5-133 (5X86-P75) SQFP
CPU type	Onboard SQFP
BIOS	Award 128KB FLASH BIOS
Chipset	ALi 1487/1489
I/O Chipset	Winbond 83877TF
L2 Cache	Onboard 128KB L2 Cache. Could be upgraded to 512KB by factory
Memory	Onboard two 72-pin SIMM sockets support up to 128 MB Fast Page or EDO DRAM
Enhanced IDE	Supports two IDE devices. Supports Bus Master mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/PS2 Mouse connector	8-pin connector supports PC/AT keyboard and PS/2 mouse
Real Time Clock	Dallas DS-12887A or equivalents, powered by lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.1 compliant

Flat Panel/CRT Interface

Chipset	C&T 65550
Display memory	Onboard 2MB EDO display memory
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	UP to 1024 x 768 @ 64K colors

Digital I/O Interface

4 TTL digital input bits & 4 Open Collector digital output bits

Ethernet Interface

Chipset	Realtek RTL8029AS PCI 10Base-T Ethernet controller
Ethernet interface	Onboard 10Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard
PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

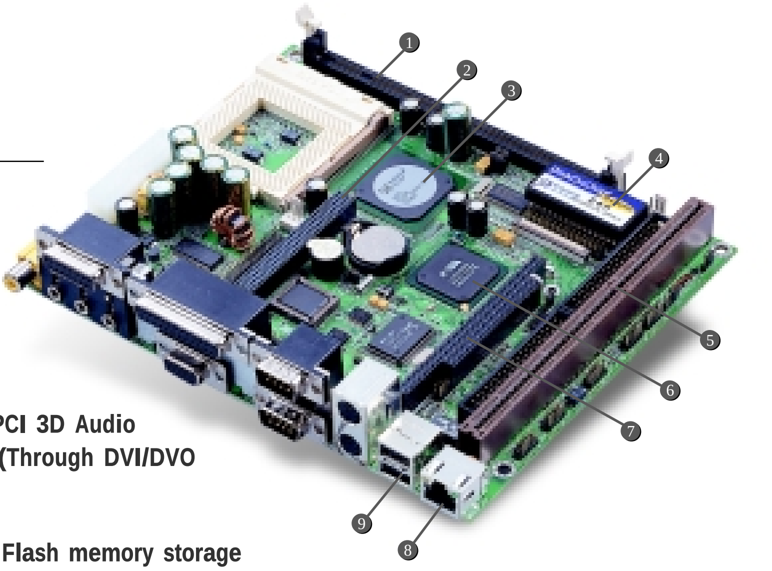
Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8" (L) x 5.75" (W) (203 mm x 146 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

PCM-6898

FC/Socket 370 Media PC with LCD, Ethernet, Audio, AGP 4X, TV-out, SSD/Compact Flash, PC/104, PC/104 Plus, 4 USB Ports, & 4 COM Ports

- ① One 168-Pin DIMM Socket
- ② PC/104+ Connector
- ③ VIA VT8604 Chipset
- ④ Socket for DiskOnChip
- ⑤ PISA Connector
- ⑥ VIA VT82C686B Chipset
- ⑦ PC/104 Connector
- ⑧ 10/100 Base-T Ethernet Connector
- ⑨ USB Connector



Features

- Supports FC-370 Pentium III and Celeron CPUs
- High Speed AGP 4X for VGA display
- One 10/100 Base-T Fast Ethernet
- Supports H/W status monitoring
- Integrated AC-97 2.1 SoundBlaster compatible PCI 3D Audio
- Supports CRT and 18/24/36/48-bits TFT panels (Through DVI/DVO Module)
- Supports NTSC/PAL TV output
- Supports both DiskOnChip® (SSD) and Compact Flash memory storage

Specifications

General Functions

CPU type	Intel FC-370 Pentium III. Celeron, and compatible CPUs
BIOS	Award 256KB FLASH BIOS
Chipset	VT 8604 / VT 82C686B
I/O Chipset	VT 82C686B
Memory	Up to 256MB. One 168-Pin DIMM socket onboard.
Enhanced IDE device interface	Supports up to four hard disk drives. BIOS auto-detect. Supports PIO mode 5 and Bus Master. Also supports Multi-word DMA and Ultra DMA/100 (and one CFD socket onboard)
FDD interface	Supports up to two floppy disk drives, 5.25" (360KB and 1.2MB) and /or 3.5" (720KB, 1.44MB and 2.88MB)
Parallel port	Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP, ECP, and EPP.
Serial ports	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually.(16C550 equivalent)
IR interface	One IrDA Tx / Rx header supports (FIR/SIR, IrDA 1.0 spec) Compact Flash interface
Keyboard/mouse connector	Dual 6-pin mini DIN connector supports PC/AT keyboard and PS/2 mouse.
USB connector	Four USB ports on board.
Battery	Lithium battery for data retention
DMA channel	7 DMA channels (8237 equivalent)
Interrupt level	15 interrupt levels (8259 equivalent)
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Supports Win98, Win31, Software selectable time-out interval (1~255 sec, 1 sec/step)
Power management	Supports ATX power supply. Supports PC97 , modem ring-in and LAN/KBC wake up functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant.

Flat panel/CRT interface

Chipset	VT8604
Display memory	Share memory up to 8MB
Display type	Supports non-interlace CRT and up to 18/24/36/48-bit TFT LCD displays Can display both CRT and Flat Panel simultaneously. Requires TTL, Panel Link or LVDS modules
Resolution	Up to 1280 x 1024 @ 16.7M

TV output

Chipset	Chrontel 7006 digital TV encoder, supports both PAL and NTSC.
Interface	Onboard RCA Jack & S-Video connector supports NTSC / PAL composite output.

Audio Interface

Chipset	VIA 1611 Compatible with Sound Blaster, Sound Blaster Pro, and Windows Sound System

Ethernet Interface

Chipset	RTL 8139C
Interface	Onboard 10/100Base-T RJ-45 connector

SSD interface

One 32-pin DIP socket supports M-systems DiskOnChip® 2000 series, up to 288MB.

CFD interface

One Compact Flash Socket supports data storage

Digital I/O interface

Onboard 8-pin 2.00 header supports 4-bit Input/Output individually

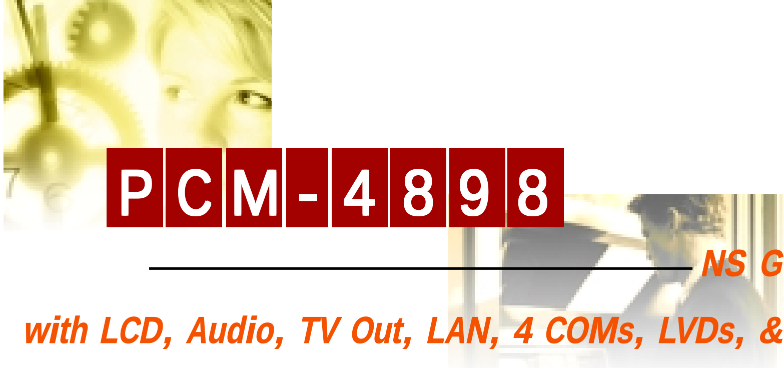
Expansion Slots

One PISA slot and One PC/104 and PC/104 Plus on board for expansion

Mechanical and environment

Power supply voltage	standard ATX power connector onboard
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	200mm(L) x 162mm(W)
Weight	1.2lb. (0.5Kg)

* Please refer to our website for detailed power consumption information.



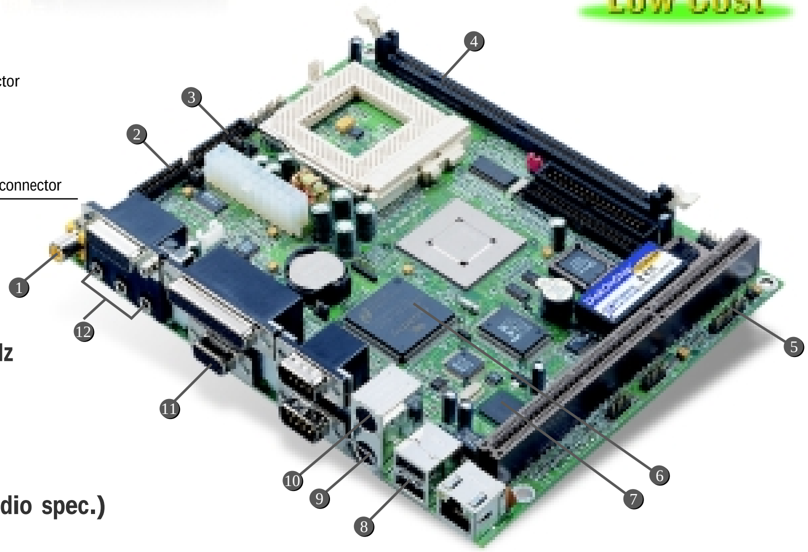
PCM-4898

NS Geode Series Media PC

with LCD, Audio, TV Out, LAN, 4 COMs, LVDs, & 4 D I/O

Low Cost

- ① TV-Output connector (NTSC/PAL)
- ② 18-bit TFT Flat Panel connector
- ③ LVDS Connector
- ④ 168-pin DIMM socket
- ⑤ Digital I/O connector
- ⑥ I/O chipset NS97317
- ⑦ 10/100Base-T Ethernet connector
- ⑧ Dual USB Connectors
- ⑨ KB connector
- ⑩ PS/2 Mouse connector
- ⑪ CRT Connector
- ⑫ Audio/MIC Signal Input/Output connector



Features

- **Supports NS Geode Series CPUs up to 300MHz**
- **Supports CRT and 18-bit TFT Panels**
- **LVDS interface onboard**
- **Supports NTSC/PAL TV outputs**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio**
- **4 TTL digital input bits & 4 TTL digital output bits**
- **Supports DiskOnChip® (SSD) up to 288MB**

Specifications

General Functions

CPU	NS Geode Series processor 200~300MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	NS97317/ITE IT8661
Memory	Onboard one 168-pin DIMM socket supports 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA33 Mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	Dual 6-pin mini DIN connectors support PC/AT keyboard and connector PS/2 mouse
USB connectors	Dual USB ports onboard
Battery	Lithium battery for data retention
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Watchdog timer	Can generate a system reset or IRQ15. Software selectable time-out interval (2 sec.~255 sec. 1sec./step)
Power management	Supports ATX power supply. Supports PC97, modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	NS CS5530A
Display memory	Shared memory up to 4MB
Display type	Supports non-interlace CRT and up to 18-bit TFT LCD displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

LVDS Interface

Chipset	Thine Thc63LVDM63A
Interface	One 10 x 2 header (2.0 mm) onboard supports LVDS function

Audio Interface

Chipset	NS CS5530A. Compatible with SoundBlaster, SoundBlaster Pro, and Windows Sound System
Interface	Onboard line_in, line_out, and Mic_in jacks

Digital I/O Interface

One 5 x 2 (2.0 mm) header supports 4 TTL digital input bits & 4 TTL digital output bits individually

TV Display Interface

Chipset	Chrontel 7003
Display interface	Onboard (RCA/S) jacks support NTSC/PAL composite outputs

Ethernet Interface

Chipset	Intel 82559X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.95" (L) x 6.4" (W) (202 mm x 163 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

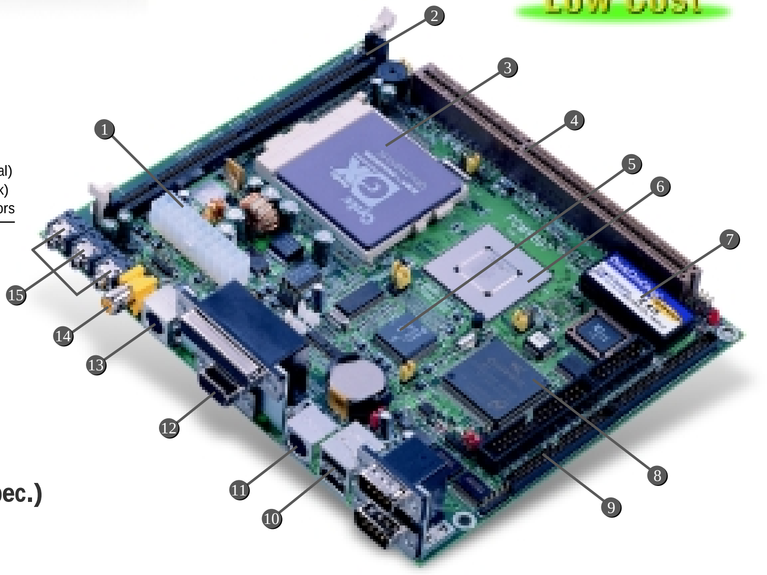
PCM-4897

NS Geode Series Media PC

with LCD, Audio, TV Out, & 2 COMs

Low Cost

- ① ATX Power Connector
- ② DIMM Socket
- ③ NS Geode Series CPU
- ④ PCI/ISA slot for Expansion
- ⑤ Chrontel 7003, Supports NTSC/PAC TV Outputs
- ⑥ CS5530A TFT Panel/CRT VGA Controller
- ⑦ Socket for DiskOnChip®
- ⑧ I/O Chipset NS97317
- ⑨ Flat Panel Display Connector
- ⑩ Dual USB Connectors
- ⑪ KB/PS 2 Mouse Connector
- ⑫ CRT Connector
- ⑬ Video Signal Output Connector(S-Terminal)
- ⑭ Video Signal Output Connector (RCA-Jack)
- ⑮ Audio/MIC Signal Input/Output Connectors



Features

- **NS Geode Series CPUs up to 300MHz**
- **Supports CRT and 18-bit TFT Panels**
- **Supports NTSC/PAL TV outputs**
- **Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio**
- **Supports DiskOnChip® (SSD) up to 288MB**

Specifications

General Functions

CPU	NS Geode Series processor 200~300 MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	NS97317
Memory	Onboard one 168-pin DIMM socket supports 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA33 Mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP, ECP, and EPP modes
Serial port	Two RS-232 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually. (16C550 equivalent)
IR interface	Support one IrDA Tx/Rx header
KB/PS2 Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse
USB connectors	Dual USB ports onboard
Battery	Lithium battery for data retention
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	NS CS5530A
Display memory	Shared memory up to 4MB
Display type	Supports non-interlace CRT and TFT Flat Panel displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Audio Interface

Chipset	NS CS5530A. Compatible with SoundBlaster, SoundBlaster Pro, and Windows Sound System Dual DMA support W/FIFO buffers, full duplex operation
Interface	Onboard line_in, line_out, and Mic_in jacks

TV Display Interface

Chipset	Chrontel 7003
Display interface	Onboard (RCA/S) jacks support NTSC/PAL composite outputs

SSD Interface	One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

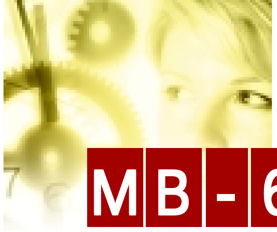
Expansion Interface

PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

Power supply voltage	+3.3 V, +5 V, +12 V, -12 V
Operating temperature	32 to 140° F(0 to 60° C)
Board Size	7.95" (L) x 6.4" (W) (202 mm x 163 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

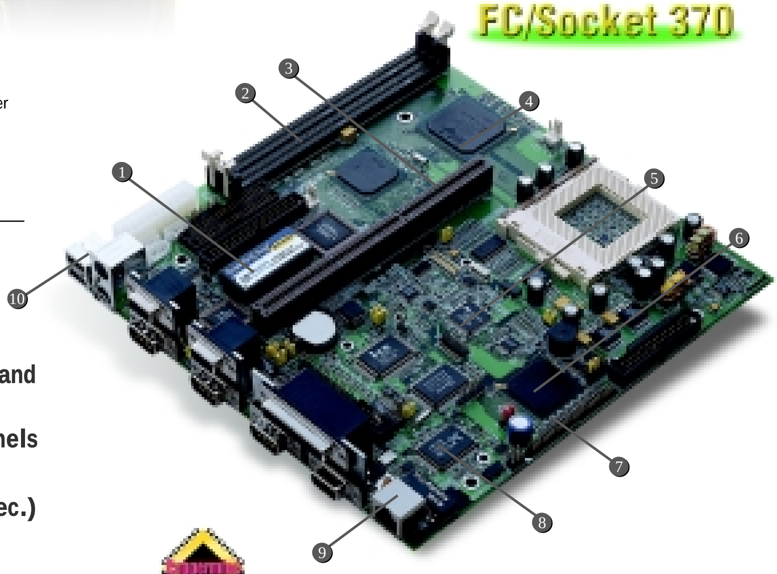


MB-668

FC/Socket 370 LPX Board

with LCD, LAN, Audio, & 4 COMs

1. Socket for DiskOnChip®
2. Two 168-pin DIMM Sockets
3. PCI/ISA Slot for Expansion
4. Intel 440BX Chipset
5. Audio controller (ES1938)
6. C&T 69000 Flat Panel Display Controller
7. Flat Panel Display Connector
8. 10/100Base-T Ethernet Controller
9. 10/100Base-T RJ-45 Connector
10. Dual USB Connectors



Features

- **Supports both Intel FC-370 Pentium III, Celeron™ and compatible CPUs**
- **C&T69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.1 (meets PC99 Basic Audio spec.) SoundBlaster-compatible PCI 3D Audio**
- **Supports DiskOnChip® (SSD) up to 288MB**

Specifications

General Functions

CPU	Intel FC-370 Pentium III (coppermine) Celeron™ and compatible CPUs (with system bus frequencies of 66/100 MHz)
CPU type	Intel Socket 370
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	ITE IT8661F / Winbond W83977ATF. Fully 16-bit I/O decoded
Memory	Onboard two 168-pin DIMM socket supports up to 512 MB SDRAM
Enhanced IDE	Two IDE devices. Supports up to 4 Ultra DMA/33 devices with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360 KB and 1.2 MB) and /or 3.5" (720 KB, 1.44 MB, and 2.88 MB)
Parallel port	Two bi-directional parallel ports. Support SPP, ECP and EPP modes.
Serial port	One RS-232 and three RS-232/422/485 series ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually (16C550 equivalent).
IR interface	Supports one IrDA Tx/Rx header (FIR/SIR, IrDA 1.0 spec.)
KB/Mouse connector	External PS/2 keyboard/Mouse connector x 1; Internal 6*1 pin connector supporting PC/AT keyboard and PS/2 mouse
USB connectors	Two external USB connectors, internal 6*1 header onboard supporting dual USB ports
Battery	Lithium battery for data retention
CMOS Backup	CMOS data backup in Flash memory, auto re-loading when system configuration gets data loss
Watchdog Timer	Can generate a system reset, IRQ15, or IRQ10 and IRQ11. Software selectable time-out interval (1 sec. ~ 255 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply. Supports PC97 and modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant
Power LED	It lights up when CPU is running
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages, FAN speed control and temperatures monitoring
LED status pin header	To make LED's on-off to indicate the status of power, CPU fan, AUX fan, HDD, temperatures, and LAN access

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and Mono) displays Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors (CRT/LCD simultaneous display)

Audio Interface

Chipset	ESS ES1938 (Solo-1)
Audio interface	16-bit stereo VLSI chip, PCI based AC 97 Digital Audio Processor, Sound Blaster/Pro emulation

Ethernet Interface

Chipset	Realtek RTL8139C 100Base-T Fast Ethernet controller
Ethernet interface	100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 Series up to 288MB

Expansion Interface

PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

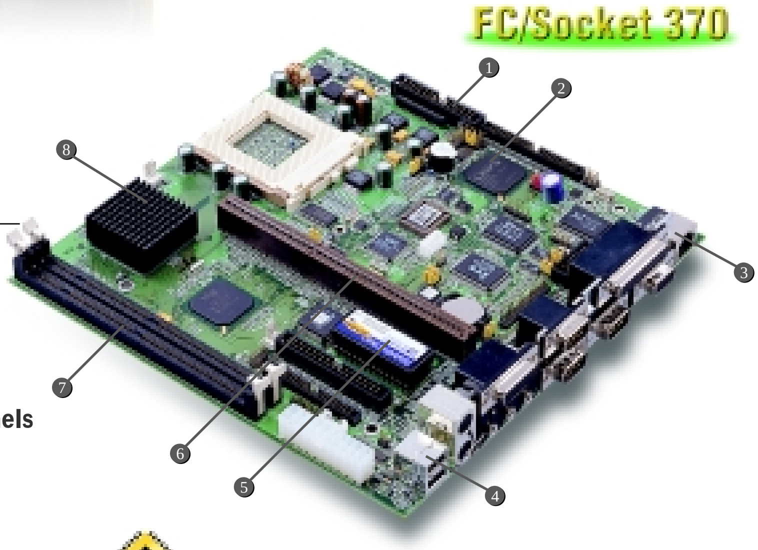
Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8.9" (L) x 8.7" (W) (225 mm x 220 mm)
Weight	1.2 lb. (0.52 Kg)

* Please refer to our website for detailed power consumption information.

MB-662

FC/Socket 370 LPX Board

with LCD, LAN, Audio, 4 COMs



- ❶ FDD Connector
- ❷ C&T 69000 Flat Panel Display Controuer
- ❸ 10/100Base-T RJ-45 connector
- ❹ Dual USB Connectors
- ❺ Socket for DiskOnChip®
- ❻ PCI/ISA Slot for Expansion
- ❼ Two 168-pin DIMM Sockets
- ❽ Intel 440BX Chipset

Feature

- ■ **Supports Intel FC-370 Pentium III, Celeron™ and compatible CPUs**
- ■ **C&T69000 LCD controller supports 36-bit TFT Panels**
- ■ **10/100Base-T Fast Ethernet**
- ■ **Integrated 32-bit PCI interface audio controller, SoundBlaster Pro compatible**
- ■ **Supports DiskOnChip® (SSD) up to 288MB**

Specification

General Functions

CPU	Intel FC-370 Pentium III (Coppermine), Celeron™, and compatible CPUs (with system bus frequencies of 66/100MHz)
CPU Type	Intel Socket 370
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	ITE IT8661F / Winbond W83977ATF
Memory	Onboard two 168-pin DIMM socket supports up to 512MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports up to 4 Ultra DMA/33 devices with data transfer rate of 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 144MB, and 2.88MB)
Parallel port	Two bi-directional parallel ports. Supports SPP, ECP, and EPP modes.
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header (FUR/SIR, IrDA 1.0 spec)
KB/PS2 mouse connector	6-pin mini-DIN connector supports PS/2 keyboard and mouse.
USB connectors	Supports dual USB external ports.
Battery	Lithium battery for data retention
CMOS Backup	CMOS data backup in FLASH memory, auto system reload when data is loss
Watchdog Timer	Can generate a system reset, IRQ15, or IRQ10 and IRQ11. Software selectable time-out interval (1 sec.~255 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Supports ATX power supply, PC97, and modem ring-in function. APM 1.2 compliant.
H/W status monitoring	Windbond W83781D H/W status monitoring IC supports power supply voltages, fan speed control and temperature monitoring
LED status pin header	LED status indicator for power, CPU fan, Aux Fan, HDD, temperatures, and LAN access

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interfaced CRT and LCD (TFT, DSTN, and Mono) display. Can display both CRT and Flat Panel simultaneously.
Resolution	Up to 1024x768 @ 64K colors

Audio Interface

Chipset	ESS ES1938 (Solo-1)
Audio interface	16-bit stereo VLSI chip, PCI based AC97 Digital Audio Processor, SoundBlaster / Pro emulation.

Ethernet Interface

Chipset	Realteck RTL8139C 10/100Base-T Fast Ethernet controller.
Ethernet interface	Onboard 10/100Base-Tx RJ-45 connector. Optional Remote Boot ROM Function.

SDD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PCI/ISA Slot	One PCI/ISA slot onboard

Mechanical and Environment

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8.9" (L) x 8.7" (W) (225 mm x 220 mm)
Weight	1.2lb. (0.52 kg)

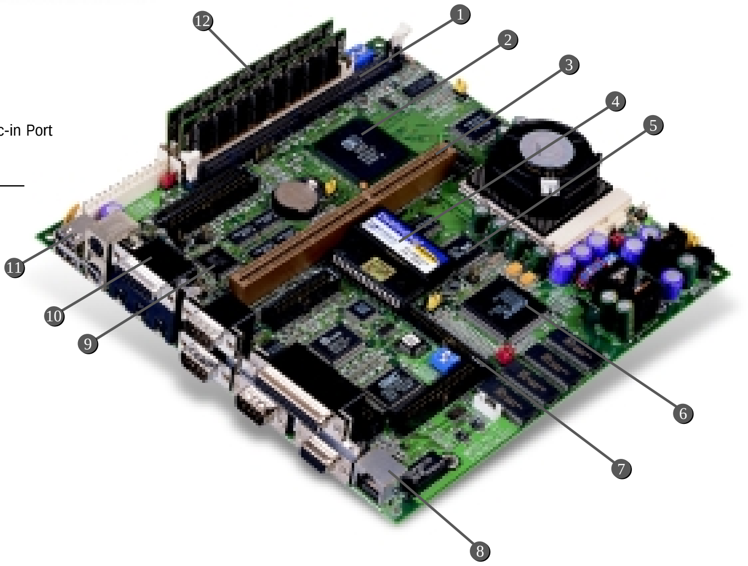
* Please refer to our website for detailed power consumption information

MB-562

Socket 7 LPX size SBC

with LCD, Ethernet, Audio, & 4 COMs

- ❶ 168-pin DIMM Socket
- ❷ SiS 5582 Chipset
- ❸ PCI/ISA Slot for Expansion
- ❹ Socket for DiskOnChip®
- ❺ 10Base-T Ethernet Controller
- ❻ C&T 65550 Flat Panel/CRT VGA Controller
- ❼ Flat Panel Display Connector
- ❽ 10Base-T RJ-45 connector
- ❾ ES1869S Audio Chip
- ❿ Game Port and Line-out, Line-in, Mic-in Port
- ⓫ Dual USB connectors
- ⓬ Two 72-pin SIMM sockets



Features

- Supports Intel Pentium MMX 166~233MHz CPUs
- Onboard three RS-232 and one RS-232/422/485 serial Ports
- C&T 65550 LCD controller with 2MB EDO memory onboard
- 10Base-T Ethernet
- Integrated SoundBlaster compatible audio
- Supports DiskOnChip® (SSD) up to 288MB

Specifications

General Functions

CPU	Intel Pentium MMX 166~233MHz, AMD K6-2 233~300MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	SiS 5582
I/O Chipset	ITE IT8661F. Fully 16-bit I/O decoded
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard one 168-pin DIMM socket and two 72-pin SIMM sockets support up to 256MB SDRAM or 128MB Fast Page or EDO DRAM
Enhanced IDE	Supports four IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/Mouse connector	6-pin mini-DIN connectors support PS/2 keyboard and mouse
USB connectors	One 4 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 65550
Display memory	Onboard 2MB EDO display memory
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Audio Interface

Chipset	ESS ES1869S
16-bit stereo digital audio	Full-duplex support enables simultaneous record and playback for Internet communications software
Game port	IBM® compatible 15-pin game port with analog supported

Ethernet Interface

Chipset	Realtek RTL8029AS PCI 10Base-T Ethernet controller
Ethernet interface	Onboard 10Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 Series up to 288MB

Expansion Interface

PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

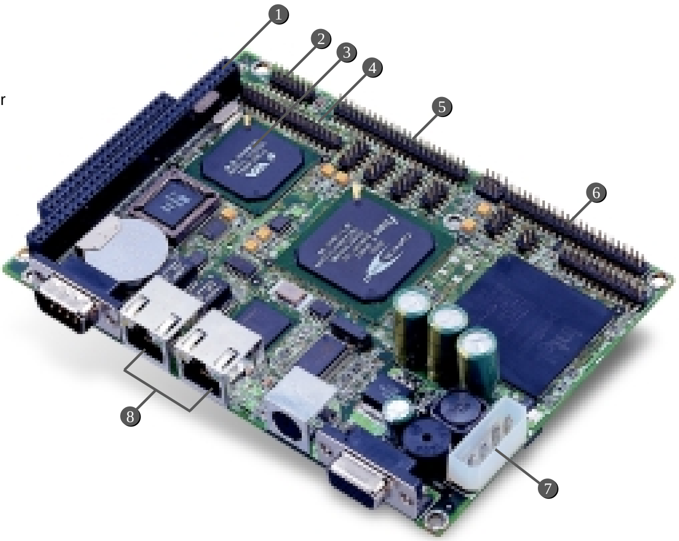
Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	8.9" (L) x 8.7" (W) (225 mm x 220 mm)
Weight	1.2 lb. (0.52 Kg)

* Please refer to our website for detailed power consumption information.

Gene-5310

Intel Low-power SubCompact Board with LCD, LVDS, Dual Ethernet, Compact Flash, TV-out, & Audio

❶ PC/104 Connector
❷ Audio Connector
❸ VT82C686B Chipset
❹ FDD Connetor
❺ IDE Connector
❻ LCD Connector
❼ Power Connector
❽ 10/100 Base-T RJ-45 Ethernet Connector



Features

- **3.5"FDD SubCompact Form Factor**
- **Utilizes Intel Tillamook BGA MMX CPU 266 MHz**
- **Integrated AGP 2D/3D Graphics Accelator**
- **Supports CRT and 24-bit TFT panels**
- **Supports NTSC/PAL TV output**
- **Integrated AC-97 2.0 (meets PC98 (tm) Basic Auto spec.) SoundBlaster compatible legacy audio**
- **Supports Compact Flash data Storage**
- **Single channel LVDS function supported through daughter board**
- **Supports Dual 10/100Base-T Fast Ethernet**
- **2 COMs / 1 Parallel / 2 USB / 1IrDA Port**
- **5V only operation**

Specification

General Functions

CPU type	Intel Tillamook (low -power) MMX BGA integrated processor
BIOS	Award 256KB FLASH BIOS
Chipset	CBI7 / VT82C686B
I/O Chipset	VT82C686B
Memory	Up to 256MB. One 144-Pin SODIMM socket onboard.
Enhanced IDE device interface	Supports up to two hard disk drives. BIOS auto-detect. Supports PIO mode 4 and Bus Master. Also supports Multi-word DMA and Ultra DMA/66
Floppy disk drive interface	Supports up to two floppy disk drives, 5.25" (360KB and 1.2MB) and /or 3.5" (720KB, 1.44MB and 2.88MB)
Parallel port	Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP, ECP, and EPP.
Serial ports	Four RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually.(16C550 equivalent)
IR interface	One IrDA Tx / Rx header supports SIR
Keyboard/mouse connector	Dual 6-pin mini DIN connector supports PC/AT keyboard and PS/2 mouse.
USB connector	Four USB ports on board.
Battery	Lithium battery for data retention
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Supports Win2000,Win98,Win95,Win31, Software selectable time-out interval (1sec~255 sec, 1sec/step, 1min~255min,1min/step)
Power management	Supports AT power supply. Supports PC97 I/O peripheral devices support power saving and doze modes.

Flat panel/CRT interface

Chipset	North Bridge CBi7
Display memory	Share memory up to 8MB
Display type	Supports non-interlace CRT and up to 24-bit LCD (TFT, DSTN) displays Can display both CRT and Flat Panel simultaneously.
Resolution	Up to 1600 X 1200 @ 16.7M colors

TV output

Chipset	TV Express digital TV encoder, supports both PAL and NTSC.
Interface	Onboard pin header supports NTSC / PAL composite output.

Audio Interface

Chipset	VT82C686B Integrated SoundBlaster, Sound Blaster Pro, and Windows Sound System

Ethernet Interface

Chipset	Dual Intel 82559ER MicroBGA package
Interface	Onboard Dual 100Base-T RJ-45 connector

SSD interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Compact Flash interface

One Compact Flash Socket supports data storage

Expansion Slots

PC/104 connector	One 16-bit 104-pin connector onboard for expansion

Mechanical and environment

Power supply voltage	+5V(4.75V to 5.25V)
Operating temperature	32 to 140 °F (0 to 60°C)
Board Size	5.75" (L) X 4" (W) (146mm(L) x 101.6mm(W))
Weight	0.88lb. (0.4Kg)

* Please refer to our website for detailed power consumption information.

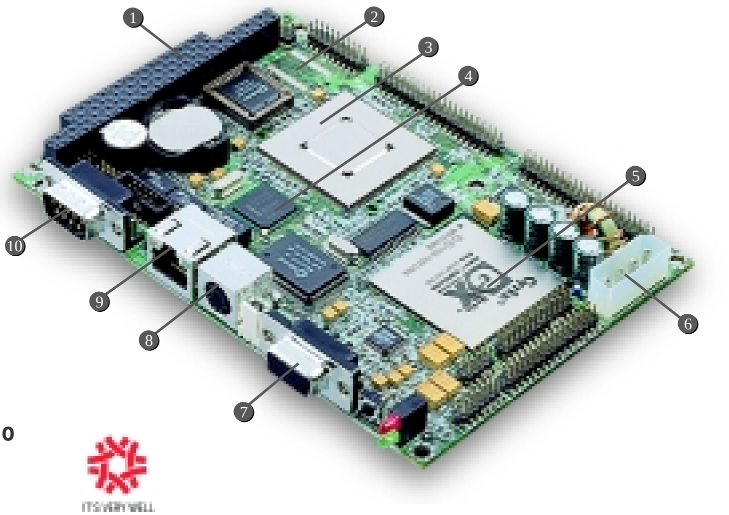
Gene-4310 Series

NS Geode Series SubCompact Board

with LCD, LVDS, Ethernet, TV-Out & Audio

Ultra Small

❶ PC/104 Connector
❷ Optional LVDS Interface (Gene-4310S)
❸ NS CS5530A Chipset
❹ Intel 82559ER 10/100Base-T Fast Ethernet Controller
❺ NS Geode series Low-power CPUs
❻ Power Connector
❼ DB-15 VGA Connector
❽ Mini-DIN KB/Mouse Connector
❾ 10/100Base-T RJ-45 Connector
❿ DB-9 RS-232 Connector



Features

- **3.5" FDD SubCompact Form Factor**
- **Supports NS Geode Series Low-power BGA CPUs**
- **Supports CRT and 18-bit TFT Panels**
- **LVDS interface**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.0 SoundBlaster compatible Audio**
- **Supports Compact Flash Storages**
- **2 COMs/1 Parallel/2 USB/1 IrDA Port**
- **5V only operation**

Specifications

General Functions

CPU	NS Geode Series (low-power) 233MHz (available in different speeds by request)
CPU type	Onboard BGA
BIOS	Award 256KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	Winbond W83977F. Fully 16-bit I/O decoded
Memory	Onboard one 144-pin SODIMM socket supports up to 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports up to two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	Internal header for bi-directional parallel port x 1. Supports SPP, ECP, and EPP modes
Serial port	One external DB-9 connector supports RS-232 x 1, one internal header supports RS-232/422/485 x 1. Ports can be configured as COM1, COM2, or disabled individually (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	Mini-DIN connector supports keyboard and PS/2 mouse
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog Timer	Can generate a system reset or IRQ15. Supports Win98, Win3.1. Software selectable time-out interval (15 sec. ~ 3825 sec., 15 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages, fan speed, and temperatures monitoring

Flat Panel / CRT Interface

Chipset	NS CS5530A
Display memory	Shared UMA up to 4MB
Display type	Supports non-interlaced CRT and up to 18-bit TFT LCD displays. Can display both CRT and flat panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

LVDS Interface (Gene-4310S Only)

Chipset	Thine THC63LVDM63A
Transmitting capability	18-bit panel signal for LVDS cable

Audio Interface

Chipset	NS CS5530A
3D audio	Supports Microsoft DirectSound and DirectSound 3D audio technology in two-speaker mode (requires Microsoft Direct Sound 3D supported software titles)
16-bit stereo digital audio	Full-duplex supports enables simultaneous record and playback for Internet communications software

TV Display Interface (Gene-4310T Only)

Chipset	Chrontel 7003
Display Interface	Onboard (RCA/S) jacks support NTSC/PAL composite outputs

Ethernet Interface

Chipset	Intel 82559ER 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector

SSD Interface

One socket supports Compact Flash Disk

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Connectors

External connectors	VGA (DB-15), COM 1 (DB-9), Ethernet (RJ-45), KB/ Mouse (Mini-DIN)
Power connector	4-pin HDD type

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	5.75" (L) x 4" (W) (146 mm x 101.6 mm)
Weight	0.88 lb. (0.4 Kg)

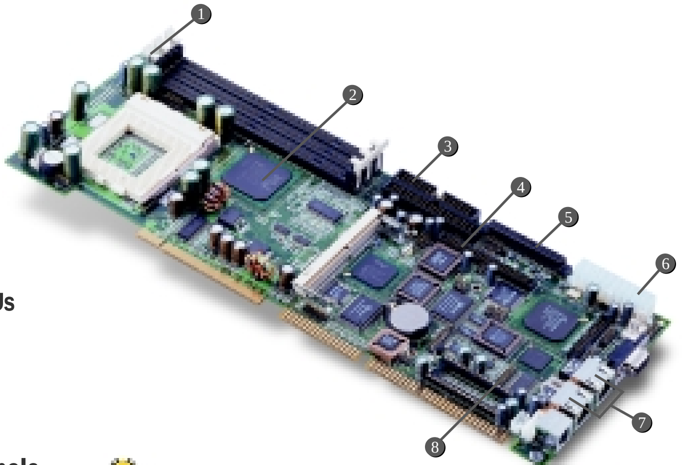
* Please refer to our website for detailed power consumption information.

SBC-776

FC/Socket 370 Full-Size CPU Card

with LCD, Panel Link, Dual Ethernet, Audio, SCSI, AGP 2X, SSD/Compact Flash, & 4 USB Ports

❶ 168-pin DIMM Socket, up to 512 MB Supported
❷ Intel 815E Chipset
❸ FDD Connector
❹ Flat Panel Connector
❺ SCSI Connector
❻ ATX Power Connector
❼ LAN (1 & 2) Connectors
❽ Audio Connector



Features

- Supports both Intel FC-370 Pentium® III and Celeron™ CPUs
- High speed AGP 2X for VGA display
- Dual 10/100Base-T Fast Ethernet
- Supports H/W status monitoring
- Ultra II Wide SCSI interface onboard
- Integrated AC-97 2.1 SoundBlaster compatible 3D Audio
- Onboard Panel Link controller supports 18/36-bit TFT Panels
- Supports DiskOnChip® (SSD) and Compact Flash memory
- Four USB Ports

Specifications

General Functions

CPU Intel	Intel® FC-370 Pentium® III and Celeron™ CPUs (with system bus frequencies of 66/100/133 MHz)
CPU type	Intel® Socket 370
Bus interface	PICMG compliant
BIOS	Award 2MB FLASH BIOS
Chipset	Intel 815E
I/O Chipset	Winbond W83627HF. Fully 16-bit I/O decoded
ISA Bus Interface	Winbond W83626F LPC to ISA bridge. Full ISA bus function except master mode support, 8 bit only
Memory	Onboard three 168-pin DIMM sockets support up to 512MB SDRAM (PC-100/133 supported)
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/100 mode with data transfer rate 100MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial port. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/PS2 Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin wafer and 4-pin wafer for keyboard and PS/2 mouse.
USB connectors	Two 5 x 2 pin header onboard supports four USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. (1 sec.~255 min. 1sec/step or 1 min./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	Support ATX power supply.I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 & ACPI compliant
H/W status monitoring	Winbond W83627HF H/W supports power supply voltages, and temperatures monitoring

Flat Panel/CRT Interface

VGA Chipset	Intel® 815E
Output Signal	AGP 2X
Display memory	Share system memory up to 4MB (MAX)
Display type	Supports non-interlaced CRT and LCD (TFT). Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

Audio Interface

Chipset	Intel® 815E
Codec	ALC200
Interface	One 7 x 2 2.0 mm pin header

SCSI Interface

Chipset	AdvanSys 38C0800, Ultra II wide SCSI controller
Interface	Onboard offer one 68-Pin D-Type connector for connection

Ethernet Interface

Chipset	Intel® 815E (Built-in)
Ethernet interface	One 10/100Base-T RJ-45 connector
Chipset	Intel® 82559ER
Ethernet interface	One 10/100Base-T RJ-45 connector

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series.

CFD Interface

One Compact Flash Socket onboard for data storage

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +3.3 V, +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	13.3" (L) x 4.8" (W) (338 mm x 122 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

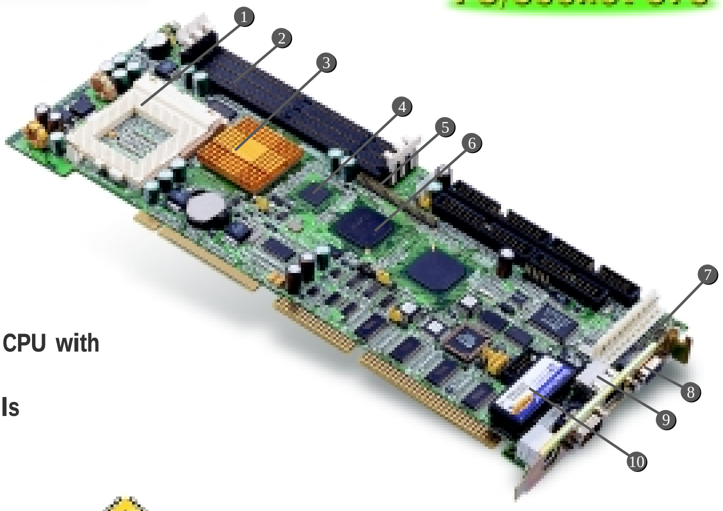
Note: Supports WOL and optionally supports AOL.

SBC-675/B

FC/Socket 370 Full-Size CPU Card with LCD, Ethernet, High Drive, & SSD

FC/Socket 370

① Intel 370-pin Socket
② Three 168-pin DIMM Sockets
③ Intel 440BX Chipset
④ 10/100 Base-T Fast Ethernet Controller
⑤ Flat Panel Display Connector
⑥ C&T 69000 LCD Controller with 2 MB SDRAM
⑦ Dual USB Ports
⑧ CRT Connector
⑨ 10/100Base-T RJ-45 Connector
⑩ Socket for DiskOnChip®



Features

- **Supports Intel FC-Socket 370 Pentium III, Celeron™, CPU with 66/100MHz FSB**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **High Drive design to enhance ISA driving capacity**

Specifications

General Functions

CPU	Intel FC-Socket 370 Pentium III (coppermine) Celeron™, and compatible CPUs with system bus frequencies of 66/100MHz
CPU type	Intel Socket 370
Bus interface	PICMG 2.0 standard
IA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O chipset	Winbond W83977F. Fully 16-bit I/O decoded
Memory	Onboard three 168-pin DIMM sockets support up to 768 MB SDRAM
Enhanced IDE	Supports four IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini-DIN connector supports PS/2 keyboard and mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages, fan speeds, and temperatures monitoring

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface (SBC-675 only)

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Mechanical and Environmental

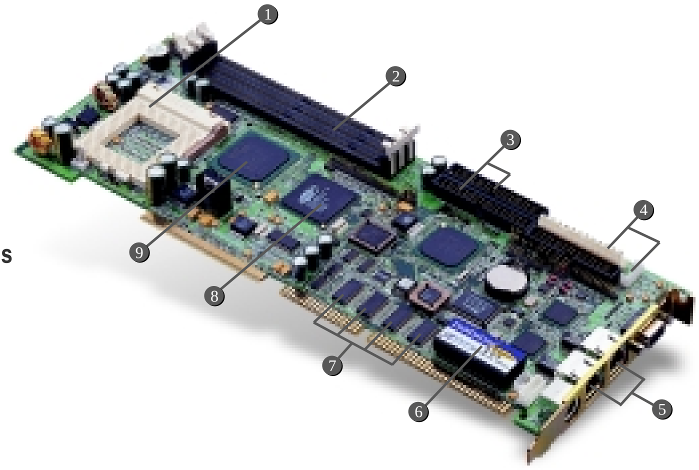
Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	13.3" (L) x 4.8" (W) (338 mm x 122 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

SBC-676

FC/Socket 370 Full-Size CPU Card with LCD, LVDS, Dual Ethernet, High Drive, AGP 2X, SSD, 2 USB Ports

❶ Intel 370-Pin Socket
❷ three 168-Pin DIMM Socket
❸ IDE Connector
❹ Power Connector
❺ 10/100 Base-T Ethernet Connector
❻ Socket for DiskOnChip
❼ Address/Data Bus Buffers
❽ VGA Connector
❾ Intel 440BX Chipset



Features

- Supports Intel FC-Socket 370 Pentium III. Celeron CPUs (66/100 MHz FSB)
- High Speed ATI Mobility AGP 4M/8M(M/M1) supports 24-bit TFT Panels and LVDS
- Dual 10/100Base-T Fast Ethernet
- Supports DiskOnChip® (SSD) up to 288MB
- High Drive design to enhance the ISA driving capacity
- Supports AT/ATX power supply
- Dual USB Ports

Specifications

General Functions

CPU	Intel PIII and Celeron (with system bus frequencies of 66/ 100 MHz)
CPU type	Intel FC-370
Bus interface	PICMG 2.0 standard
ISA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	Winbond W83977EF. Full 16-bits I/O decoded
Memory	Onboard three 168-Pin DIMM sockets support up to 768MB SDRAM
Enhanced IDE	Support four IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB and 2.88MB)
Parallel port	One bi-directional parallel port, Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial port. Ports can be configured as COM1,COM2,COM3,COM4, or disabled individually.
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin min-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin and 4-pin header supports PC/AT and PS/2 for IPC applications
USB connector	One 5 X 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out Interval (2 sec.~ 255 sec., 1 sec./step)
DMA	7 DMA channels
Interrupt	15 interrupt levels
Power management	Supports ATX and AT power supply. Support Wake on LAN (WOL), modem Ring and K/B Wake-up functions
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages, Fan speeds, and temperatures monitoring

Flat Panel/CRT Interface

Chipset	ATI RAGE Mobility-M/M1 AGP-2X
Display memory	4MB/8MB SDRAM
Disply type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can Display both CRT and Flat Panel simultaneously
Resolution	Up to 1280 X 1024@16.7M colors (CRT/LCD simultaneously display)

Ethernet Interface (Dual Ethernet)

Chipset	Intel 82559GD 10/100 Base-T Fast Ethernet Controller
Ethernet interface	Onboard 10/100 Base-T RJ-45 connector. Optional Remote boot ROM function

SSD Interface	One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Mechanical and Environemntal

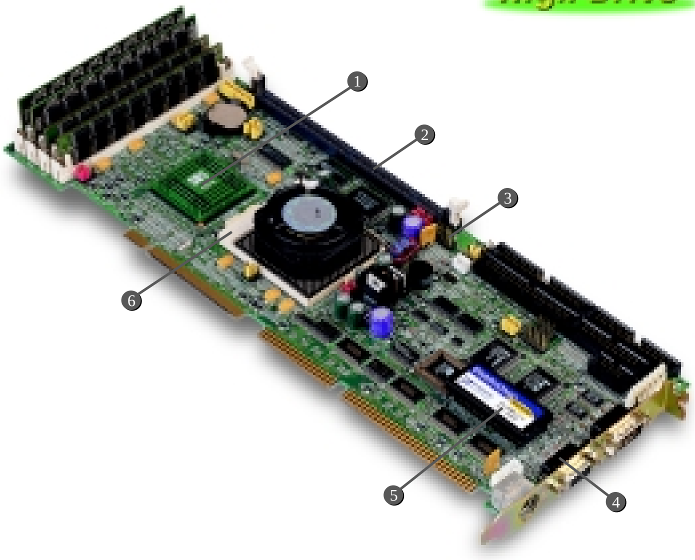
Power supply voltage	+5V (4.75V to 5.25V) +12V (11.4V to 12.6V) -5V (-4.75V to -5.25V) -12V (-11.4V to -12.6V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	13.3"(L) × 4.8"(W) (338mm × 122mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

SBC-598

Socket 7 Full-Size CPU Card with VGA, High Drive, & SSD

High Drive



❶ SiS 5598 Chipset
❷ DIMM Socket
❸ USB Connector
❹ CRT Connector
❺ Socket for DiskOnChip®
❻ Intel Socket7

Features

- **Supports Intel Pentium MMX 166~233MHz CPUs**
- **SiS 5598 VGA controller onboard**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **High Drive design to enhance ISA driving capacity**

Specifications

General Functions

CPU	Intel Pentium MMX 166~233MHz, AMD-K6-2 233~300MHz
CPU type	Intel Socket 7
Bus Interface	PICMG 2.0 standard
ISA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA
BIOS	Award 128KB FLASH BIOS
Chipset	SiS 5598
I/O chipset	ITE IT8661F. Fully 16-bit I/O decoded
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard four 72-pin SIMM and one 168-pin DIMM sockets support up to 256 MB Fast Page or EDO DRAM
Enhanced IDE	Supports four IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Two RS-232 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec. ~ 128 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

CRT Interface

Chipset	SiS 5598
Display memory	UMA supports up to 4MB display memory
Display type	Supports non-interlaced CRT displays.
Resolution	Up to 1024 x 768 @ 16M colors

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	13.3" (L) x 4.8" (W) (338 mm x 122 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.

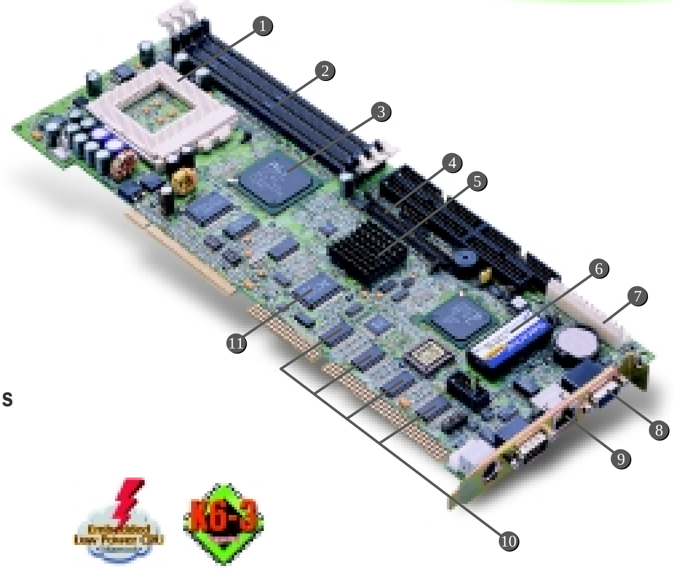
SBC-597

Super 7 Full-Size CPU Card

with LCD, Ethernet, High Drive, & SSD

High Drive

① Intel Socket 7 Supports 66/100MHz FSB CPUs
② Three 168-pin DIMM Sockets
③ ALi M1541/1543 chipset
④ Flat Panel Diaplay Connector
⑤ C&T 69000 LCD Controller built-in 2MB SDRAM
⑥ Socket for DiskOnChip®
⑦ AT Power Connector
⑧ CRT Connector
⑨ 10/100Base-T RJ-45 Connector
⑩ Address/Data Bus Buffers
⑪ 10/100Base-T Fast Ethernet Controller



Features

- **66/100MHz FSB supports AMD K6-3 CPUs**
- **Supports Intel Tillamook low power CPUs**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **High Drive design to enhance ISA driving capacity**

Specifications

General Functions

CPU	Intel Pentium MMX 166~266MHz, AMD K6-2/K6-3 266~450 MHz
CPU type	Intel Socket 7
Bus interface	PICMG 2.0 standard
ISA driving capacity	Built-in Address/Data buffer supports driving capacity up to 64mA
BIOS	Award 256KB FLASH BIOS
Chipset	ALi 1541/1543
I/O Chipset	ALi 1543
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard three 168-pin DIMM sockets support up to 768 MB SDRAM
Enhanced IDE	Supports four IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec. ~ 255 sec., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Winbond W83781D H/W status monitoring IC supports power supply voltages,and temperatures monitoring

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	13.3" (L) x 4.8" (W) (338 mm x 122 mm)
Weight	1.2 lb. (0.5 Kg)

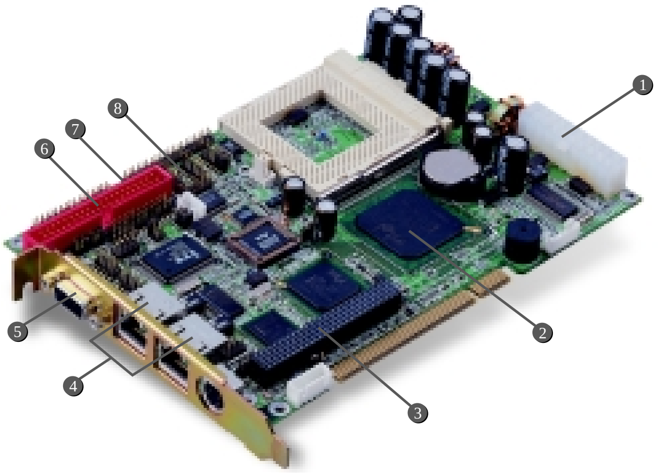
* Please refer to our website for detailed power consumption information.

SBC-659

FC/Socket 370 Half-size CPU Card

with LCD, Dual Ethernet, Audio, AGP 2X, Compact Flash, & 4 USB Ports

❶ ATX Power Connector
❷ Intel 815E Chipset
❸ PC/104+ Connector
❹ Dual 100Base-T Ethernet Connector
❺ VGA Connector
❻ IDE Connector (ATA 100)
❼ Socket for Compact Flash (Back)
❽ Digital I/O Connector



Features

- **Supports both Intel FC-370 Pentium® III and Celeron™ CPUs**
- **High speed AGP 2X for VGA display (Intel 815E built-in)**
- **Two 10/100Base-T Fast Ethernet (Intel® 815E built-in and Intel 82559GD onboard)**
- **Supports H/W status monitoring**
- **Integrated AC-97 2.1 SoundBlaster compatible 3D Audio**
- **Onboard Intel 815E controller supports 18/24/36/48-bit TFT panels (Through DVI/DVO Module)**
- **Supports Compact Flash Memory**
- **Supports PC-104 Plus Modules**
- **Four USB Ports**
- **Two COM Ports onboard**
- **DVI interface onboard**

Specification

CPU	Intel® FC-370 Pentium® III and Celeron™ CPUs (with system bus frequencies of 66/100/133 MHz)
CPU Socket	Intel® Socket 370
BIOS	Award 4 MB FLASH BIOS
Chipset	Intel® 815E
Memory	Onboard one 144-pin SODIMM socket supports up to 256MB SDRAM
Enhance IDE	Supports two IDE devices. Supports Ultra DMA/100 mode with data transfer rate up to 100 MB/sec.
FDD interface	Supports up to two floppy disk drives, 5.25" (360 KB and 1.2 MB) and/or 3.5" (720 KB, 1.44 MB and 2.88 MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP
Serial port	Two RS-232 serial ports (default), can be configured as COM1, COM2, COM3, COM4, or disable individually and one RS-232/422/485(COM2). (16C550 equivalent)
IR interface	Supports SIR and CIR
KB/PS2 Mouse connector	A 6-pin Mini-DIN supports PC/AT keyboard and PS/2 mouse and Wake on KBD function
USB connectors	Two 5*2 header onboard supports four USB ports
Power Connector	Standard ATX connector onboard
GPIO port	Supports 4 general purpose I/O each with TTL level interface
Battery	Lithium battery for data retention with Battery holder for easily Replacement
Watchdog Timer	Can generate a system reset, IRQ15 or NMI. Supports Win98, Win3.1. Software selectable time-out interval
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt level (8259 equivalent)
Power Management	Supports AT/ATX power supply. I/O peripheral device support power saving and doze/standard/suspend modes. APM 1.2 compliant
H/W status monitoring	Embedded in ITE 8712 supports power supply voltages, CPU Fan rotation and temperature monitoring

Flat Panel/CRT Interface

VGA Chipset	Intel® 815E (AGP 2X)
Display memory	Share system memory up to 4MB (MAX)
Display type	Supports non-interlaced CRT and up to 18/24/36/48-bit LCD (TFT LCD only). Can display both CRT and Flat Panel simultaneously. Requires either panel Link or LVDS modules

Audio Interface

Chipset	Intel® 815E
Codec	ALC 200
Interface	One 7*2 pin 2.0mm pin header (pin assignment same as it for Gene-4310) for MIC_In, LINE_In/Out, SPK_Out, CD_In

Ethernet Interface

Chipset	Intel® 815E (Built-in)
Ethernet interface	One 10/100Base-T RJ-45 connector
Chipset	Intel® 82559GD
Ethernet interface	One 10/100Base-T RJ-45 connector

Mechanical and Environmental

Power Supply Voltage	+5 V, +12 V,-12 V, +3.3 V, -5 V
Operating Temperature	32 to 140° F (0 to 60° C)
Board size	7.3"(L) x 4.8" (W) (185 mm x 122 mm)
Weight	1.2lb (0.3 Kg)

* Please refer to our website for detailed power consumption information.

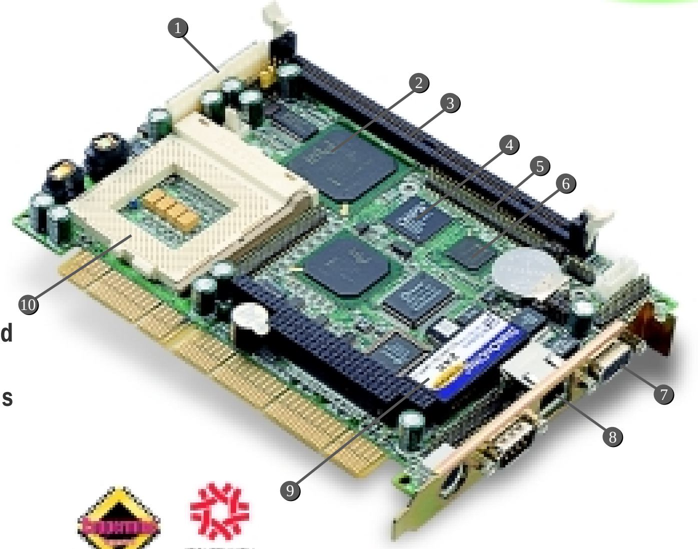
Note: Supports WOL and optionally supports AOL.

SBC-658

FC/Socket 370 Half-size CPU Card with LCD, Ethernet, & SSD

PISA

① Power connectors (P8&P9)
② Intel 440BX
③ DIMM Socket
④ C&T 69000 Flat Panel/CRT VGA Controller
⑤ Flat Panel Display Connector
⑥ Intel 82559ER 10/100Base-T Fast Ethernet Controller
⑦ CRT Connector
⑧ 10/100Base-T RJ-45 Connector
⑨ Socket for DiskOnChip®
⑩ Intel 370-pin Socket



Features

- **Supports both Intel FC-370 Pentium III, Celeron™, and compatible CPUs**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **Intel 82559ER 10/100Base-T Fast Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PISA bus interface**
- **PC/104 expansion connector**

ITS VERY WELL MADE IN TAIWAN

Specifications

General Functions

CPU	Intel FC-370 Pentium III (Coppermine), Celeron™, and compatible CPUs (with system bus frequencies of 66/100 MHz)
CPU type	Intel Socket 370
Bus interface	PISA bus
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	Winbond W83977TF. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini DIN connector supports PS/2 keyboard and mouse
USB connectors	5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (1~225 sec. 1 sec/step or 1~255 min., 1 min/step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface

Chipset	Intel 82559ER Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.3 in (L) x 4.8 in (W) (185 mm x 122 mm)
Weight	0.3Kg

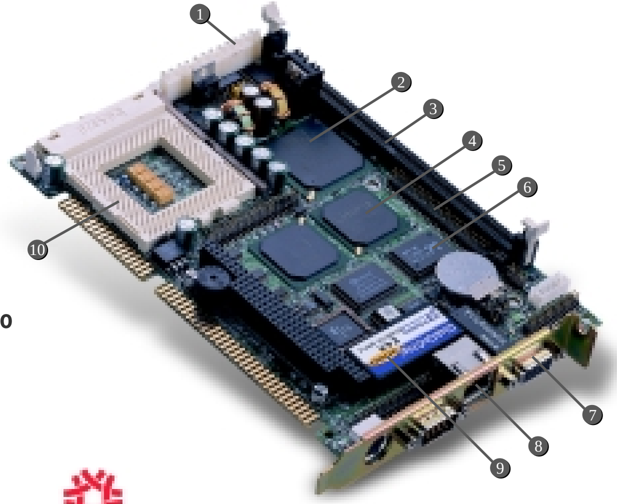
* Please refer to our website for detailed power consumption information

SBC-656

Socket 370 Half-size CPU Card with LCD, Ethernet, & SSD

Socket 370

- ❶ Power connectors (P8&P9)
- ❷ Intel 440BX
- ❸ DIMM Socket
- ❹ C&T 69000 Flat Panel/CRT VGA Controller
- ❺ Flat Panel Display Connector
- ❻ 10/100Base-T Fast Ethernet Controller
- ❼ CRT Connector
- ❽ 10/100Base-T RJ-45 Connector
- ❾ Socket for DiskOnChip®
- ❿ Intel 370-pin Socket



Features

- Supports Intel Socket 370 Celeron™ CPU with FSB up to 100MHz
- C&T 69000 LCD controller supports 36-bit TFT Panels
- 10/100Base-T Fast Ethernet
- Supports DiskOnChip® (SSD) up to 288MB
- PC/104 expansion connector

IT'S VERY WELL MADE IN TAIWAN

Specifications

General Functions

CPU	Intel Celeron™ and compatible CPUs (with system bus frequencies of 66/100MHz)
CPU type	Intel Socket 370
Bus Interface	ISA bus
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 440BX
I/O Chipset	Winbond W83977. Fully 16-bit I/O decoded
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini-DIN connector supports PS/2 keyboard and mouse
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (32 sec. ~ 254.5 min., 1 min./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel /CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.3 in (L) x 4.8 in (W) (185 mm x 122 mm)
Weight	0.3Kg

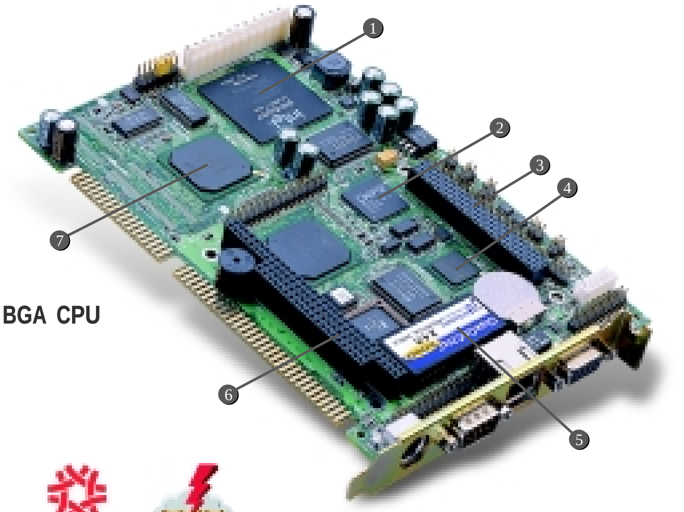
* Please refer to our website for detailed power consumption information.

SBC-558

Intel® Tillamook MMX Half-size CPU Card with LCD, Ethernet, SSD, & PC/104 Plus

CPU Onboard

1. Intel Mobile Pentium MMX 266 BGA CPU
2. C&T 69000 Flat Panel/CRT VGA Controller
3. PC/104 Plus Connector
4. 10/100Base-T Fast Ethernet Controller
5. Socket for DiskOnChip®
6. PC/104 Connector
7. Intel TX Chipset



Features

- **Onboard Intel low-power Mobile Pentium MMX 266MHz BGA CPU**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 Plus expansion connector**

Specifications

General Functions

CPU	Intel Mobile Pentium MMX 266MHz BGA
CPU type	Onboard BGA
Bus Interface	ISA bus
BIOS	Award 256KB FLASH BIOS
Chipset	Intel 430TX
I/O Chipset	Winbond W83977. Fully 16-bit I/O decoded
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard one 144-pin SODIMM socket supports up to 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Bus Master mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB,1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini DIN connector supports PS/2 keyboard and mouse
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog Timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (32 sec. ~ 254.5 min., 1 min./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

Ethernet Interface

Chipset	Intel 82559ER 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 Plus connector	One 32-bit 224-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.3 in (L) x 4.8 in (W) (185 mm x 122 mm)
Weight	0.3Kg

* Please refer to our website for detailed power consumption information

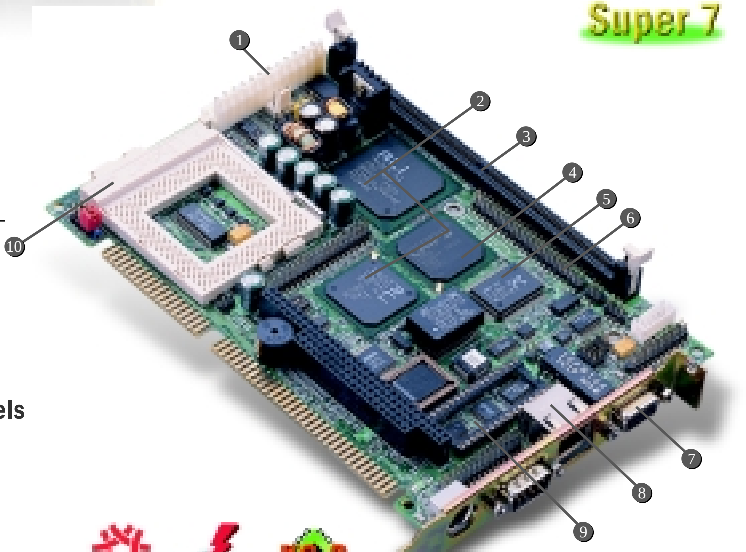
SBC-557

Super 7 Half-size CPU Card

with LCD, Ethernet, & SSD

Super 7

❶ Power Connectors (P8&P9)	❻ 10/100Base-T Fast Ethernet Controller
❷ ALi 1541/1543 Chipset	❼ CRT Connector
❸ DIMM Socket	❽ 10/100Base-T RJ-45 Connector
❹ C&T 69000 Flat Panel/CRT VGA Controller	❾ Socket for DiskOnChip®
❺ Flat Panel Display Connector	❿ Intel Socket 7 Supports 100MHz FSB CPUs



Features

- **100MHz FSB supports AMD K6-3 CPUs**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	Intel Pentium MMX 166~266MHz, AMD K6-2/K6-3 266~450 MHz
CPU type	Intel Socket 7
Bus Interface	ISA bus
BIOS	Award 256KB FLASH BIOS
Chipset	ALi 1541/1543
I/O Chipset	Winbond W83977. Fully 16-bit I/O decoded
L2 Cache	Onboard 512KB pipeline burst L2 Cache
Memory	Onboard one 168-pin DIMM socket supports up to 256 MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/Mouse connector	6-pin mini-DIN connector supports PS/2 keyboard and mouse
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15 or NMI. Software selectable time-out interval (2 sec.~255 sec., 0.5 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

Ethernet Interface

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

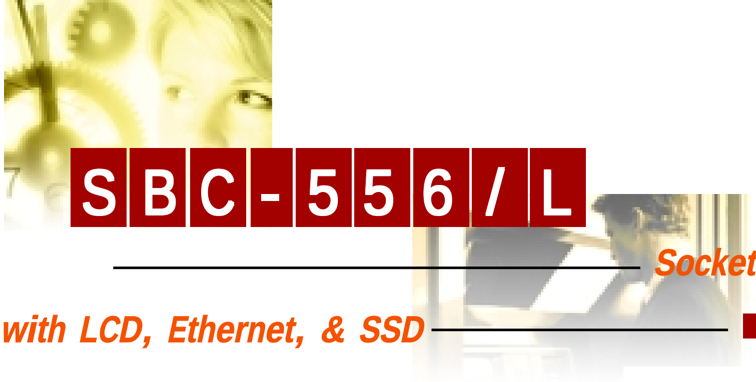
Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.3 in (L) x 4.8 in (W) (185 mm x 122 mm)
Weight	0.3Kg

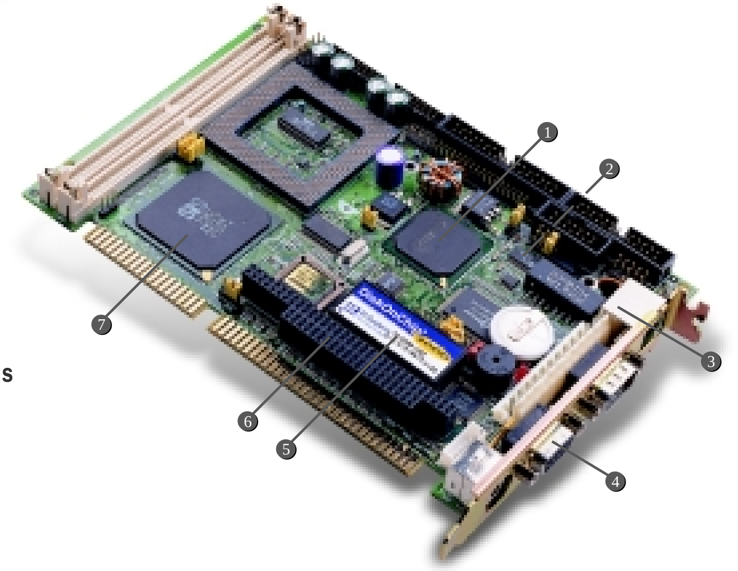
* Please refer to our website for detailed power consumption information



SBC-556/L

Socket 7 Half-size CPU Card with LCD, Ethernet, & SSD

① C&T 69000 Flat Panel/CRT VGA Controller
② 10/100Base-T Fast Ethernet Controller (on the back of the board)
③ 10/100Base-T RJ-45 Connector
④ CRT Connector
⑤ Socket for DiskOnChip®
⑥ PC/104 Connector
⑦ SiS 5582 Chipset



Features

- **Supports Intel Pentium MMX 166~233MHz CPUs**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **10/100Base-T Fast Ethernet**
- **Supports DiskOnChip (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	Intel Pentium MMX 166~233MHz, AMD-K6-2 233~300MHz
CPU type	Intel Socket 7
Bus Interface	ISA bus
BIOS	Award 256 KB FLASH BIOS
Chipset	SiS5582
I/O chipset	Winbond W83877. Fully 16-bit I/O decoded
L2 Cache	Onboard 512 KB pipeline burst L2 Cache
Memory	Onboard two 72-pin SIMM sockets support up to 128 MB Fast Page or EDO DRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA/33 mode with data transfer rate 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
USB connectors	One 5 x 2 header onboard supports dual USB ports
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, IRQ10, IRQ11, or NMI. Software selectable time-out interval (2 sec. ~ 128 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.2 compliant
H/W status monitoring	Can detect CPU temperature fan speed **(SBC-556 only)**

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface (SBC-556 only)

Chipset	Realtek RTL8139X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

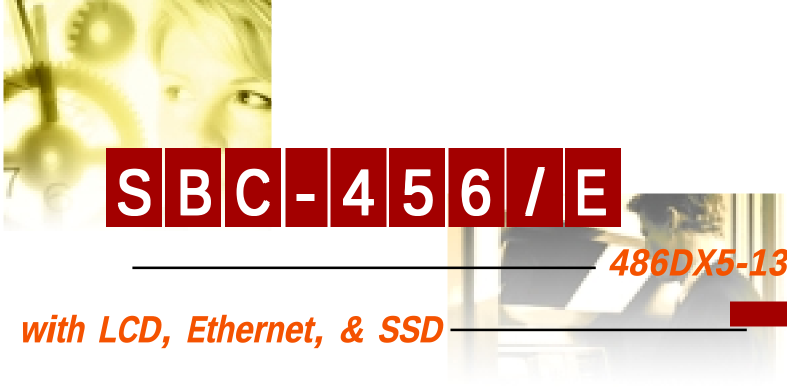
Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V
Operating temperature	32 to 140° F (0 to 60° C)
Board size	7.3" (L) x 4.8" (W) (185 mm x 122 mm)
Weight	0.3Kg

* Please refer to our website for detailed power consumption information.

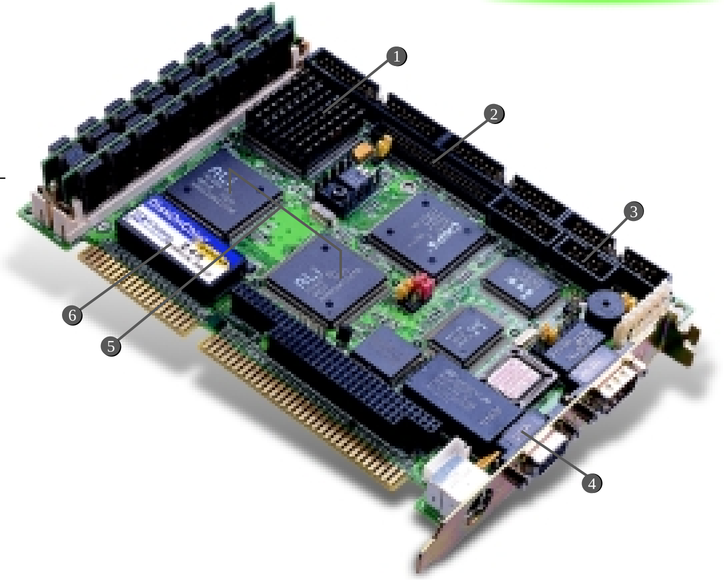


SBC-456/E

486DX5-133 Half-size CPU Card with LCD, Ethernet, & SSD

CPU Onboard

❶ AMD 486 DX5-133 CPU (SQFP)
❷ Flat Panel Display Connector
❸ 10Base-T Ethernet Connector
❹ CRT Connector
❺ ALi M1487/1489 Chipset
❻ Socket for DiskOnChip®



Features

- **Onboard AMD 486DX5-133 CPU (SQFP)**
- **C&T 65550 LCD controller with 2MB EDO memory**
- **10Base-T Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	AMD 486DX5-133 SQFP
CPU type	Onboard SQFP
Bus Interface	ISA bus
BIOS	AMI 128KB FLASH BIOS
Chipset	ALi M1487/1489
I/O Chipset	ITE IT8661F. Fully 16-bit I/O decoded
L2 Cache	Onboard 128KB L2 Cache. Could be upgraded to 512KB by factory
Memory	Onboard two 72-pin SIMM sockets support up to 128 MB Fast Page or EDO DRAM
Enhanced IDE	Supports two IDE devices. Supports Bus Master mode with data transfer rate 16.7 MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360 KB and 1.2 MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/PS2 Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
Real Time Clock	Dallas DS-12887A or equivalents, powered by lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec. ~128 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.1 compliant

Flat Panel/CRT Interface

Chipset	C&T 65550
Display memory	1MB onboard, 2MB optional
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64K colors

Ethernet Interface (SBC-456E only)

Chipset	Realtek RTL8029AS 10Base-T Ethernet controller
Ethernet interface	Onboard 10Base-T RJ-45 connector. Optional Remote boot ROM function

SSD Interface	One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +3.3 V, -12 V
Operating temperature	32 to 140° F (0 to 60° C)
Board size	7.3" (L) x 4.8" (W) (185 mm x 122 mm)
Weight	0.3Kg

* Please refer to our website for detailed power consumption information

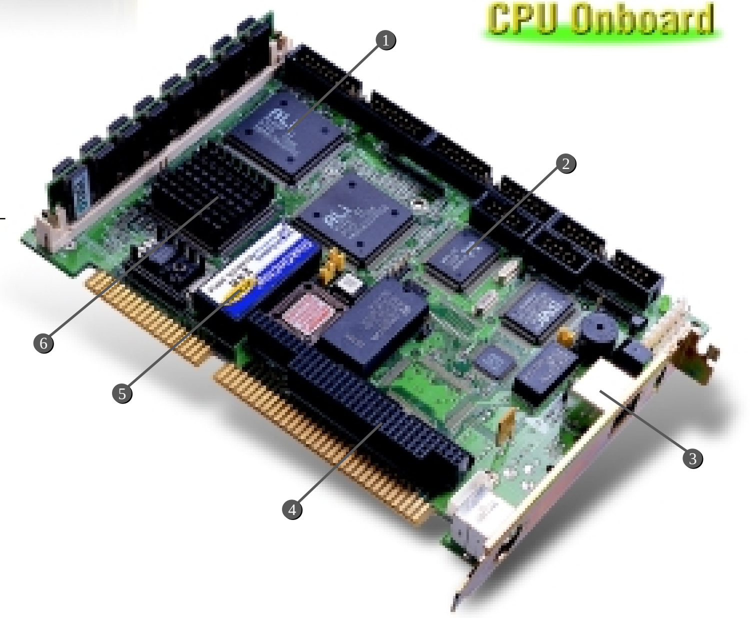
SBC-411/E

486DX5-133 Half-size CPU Card

with Ethernet & SSD

CPU Onboard

① ALi M1487/1489 Chipset
② 10Base-T Ethernet Controller
③ 10Base-T RJ-45 Connector
④ PC/104 Connector
⑤ Socket for DiskOnChip®
⑥ 486DX5-133 CPU (SQFP)



Features

- **Onboard AMD 486DX5-133 CPU (SQFP)**
- **10Base-T Ethernet**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	AMD 486DX5-133 SQFP
CPU type	Onboard SQFP
Bus Interface	ISA bus
BIOS	AMI 128KB FLASH BIOS
Chipset	ALi M1487/1489
I/O Chipset	SMC FDC37C665GT
L2 Cache	Onboard 128KB L2 Cache. Could be upgraded to 512KB by factory
Memory	Onboard one 72-pin SIMM socket supports up to 64MB Fast Page or EDO DRAM
Enhanced IDE	Supports two IDE devices. Supports Bus Master mode with data transfer rate 16.7MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Two RS-232 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB connector	6-pin mini-DIN connector supports PC/AT keyboard. Additional 5-pin header supports PC/AT keyboard for IPC applications
Real Time Clock	Dallas DS-12887A or equivalents, powered by lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (2 sec.~ 128 min., 1 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/ standby/suspend modes. APM 1.1 compliant

Ethernet Interface (for SBC-411E only)

Chipset	Realtek RTL8029AS 10Base-T Ethernet controller
Ethernet interface	Onboard 10Base-T RJ-45 connector. Optional Remote Boot ROM function

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	7.3" (L) x 4.8" (W) (185 mm x 122 mm)
Weight	0.3 Kg

* Please refer to our website for detailed power consumption information

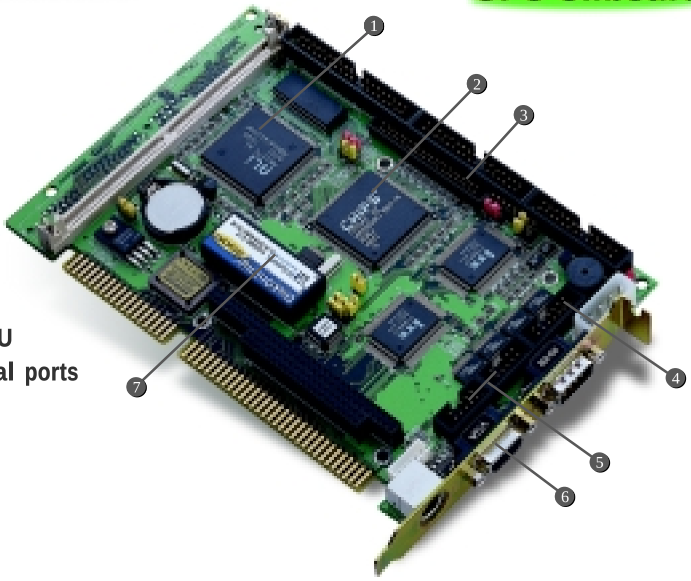
SBC-357-4M

386SX-40 Half-size CPU Card

with LCD, SSD, & 4 COMs

CPU Onboard

❶ ALi M6117C CPU and Chipset
❷ C&T 65545 Flat Panel/CRT VGA Controller
❸ Flat Panel Display Connector
❹ COM2, RS-232/422/485
❺ COM3/4, RS-232
❻ CRT Connector
❼ Socket for DiskOnChip®



Features

- **Onboard ALi M6117C, Intel 386SX-40 compatible CPU**
- **Onboard three RS-232 and one RS-232/422/485 serial ports**
- **C&T 65545 LCD controller with 1MB display memory**
- **Supports DiskOnChip® (SSD) up to 288MB**
- **PC/104 expansion connector**

Specifications

General Functions

CPU	ALi M6117C. Intel 80386SX-40 compatible
CPU type	Onboard SQFP
Bus Interface	ISA bus
BIOS	AMI 128KB FLASH BIOS
Chipset	ALi M6117C
I/O Chipset	ITE 8661F
Memory	Onboard 4 MB EDO DRAM supports 4 MB EDO DRAM
Enhanced IDE	Supports two IDE devices
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/Mouse connector	6-pin mini-DIN connector supports PC/AT keyboard and PS/2 mouse. Additional 5-pin header supports PC/AT keyboard for IPC applications
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset, IRQ15, or NMI. Software selectable time-out interval (30.5 sec. ~ 512 sec., 30.5 sec./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.1 compliant

Flat Panel/CRT Interface

Chipset	C&T 65545
Display memory	Onboard 1MB display memory
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 800 x 600 @ 256 colors

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

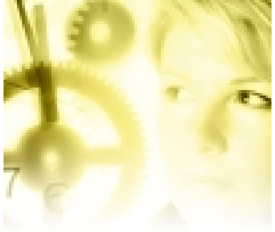
Expansion Interface

PC/104 connector	One 16-bit 104-pin connector onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	7.3" (L) x4.8" (W) (185 mm x 122 mm)
Weight	0.3 Kg

* Please refer to our website for detailed power consumption information

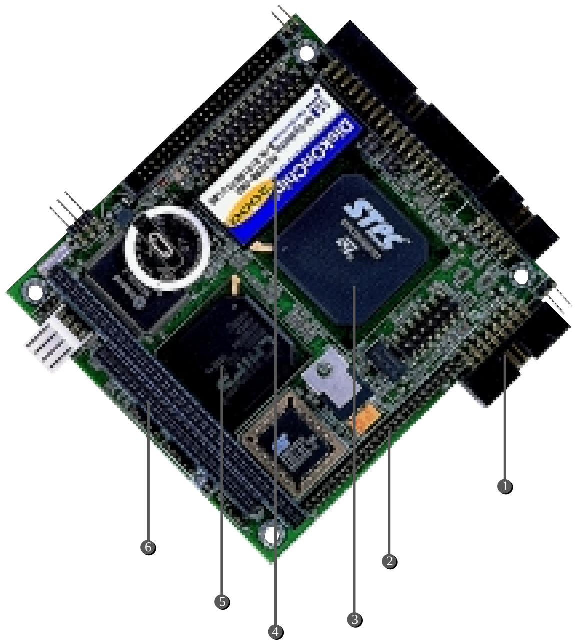


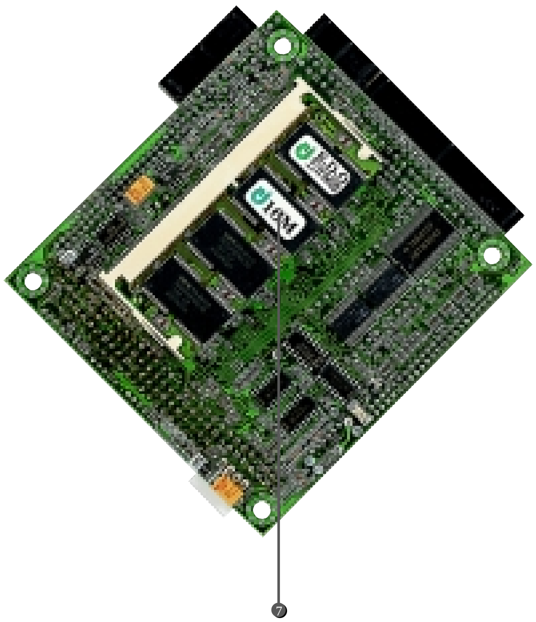
PCM-4335

STPC Client DX-66 PC/104 CPU Module with LCD & SSD

CPU Onboard

1. CRT Connector
2. Flat Panel Display Connector
3. STPC Client DX-66 CPU
4. Socket for DiskOnChip®
5. C&T 69000 Flat Panel/CRT VGA Controller
6. PC/104 Connector
7. SODIMM Socket Supports Up to 128MB Memory





Features

- **Onboard STPC Client DX-66 CPU**
- **C&T 69000 LCD controller supports 36-bit TFT Panels**
- **Onboard SODIMM socket supports up to 128MB DRAM**
- **Onboard watchdog timer with selectable time-out interval**
- **Supports DiskOnChip® (SSD) up to 288MB**

Specifications

General Functions

CPU	STPC Client DX-66
CPU type	Onboard BGA
Bus interface	PC/104 bus
BIOS	AMI 128KB FLASH BIOS
Chipset	STPC Client
I/O Chipset	Winbond W83977F. Fully 16-bit I/O decoded
Memory	Onboard one 144-pin SODIMM socket supports up to 128MB Fast Page or EDO DRAM (3.3V)
Enhanced IDE	Supports two IDE devices. Supports Bus Master mode with data transfer rate 3.3MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/Mouse connector	6-pin header supports PS/2 keyboard and mouse
Battery	Lithium battery for data retention
Watchdog timer	Can generate a system reset. Software selectable time-out interval (16 sec. ~ 127 min. 0.5 min./step)
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Power management	I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	C&T 69000
Display memory	Built-in 2MB SDRAM
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024x768@64K colors

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	3.55" (L) x 3.775" (W) (90 mm x 96 mm)
Weight	0.6 lb. (0.25 Kg)

* Please refer to our website for detailed power consumption information.

* **Note:** The PCM-4335 includes CPU fan

PCM-3336

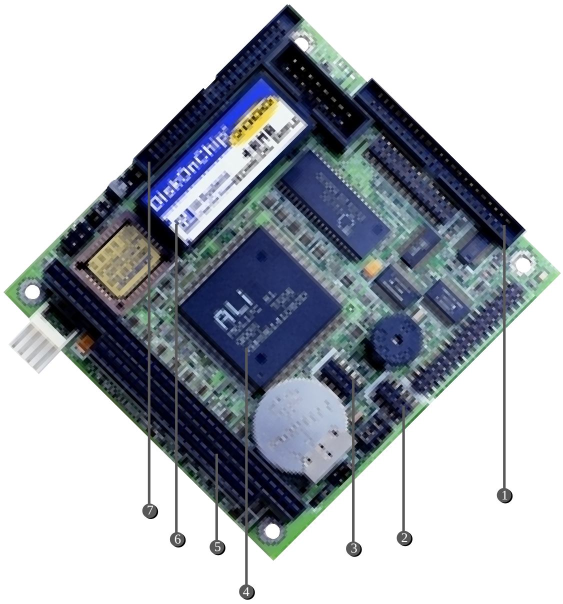
386SX-40 PC/104 CPU Module with LCD & SSD

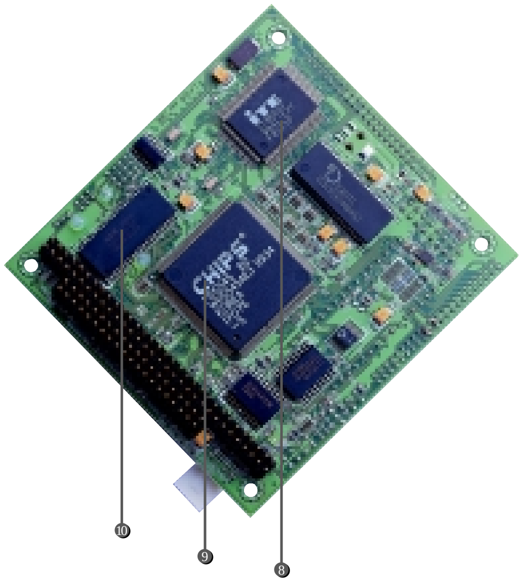
CPU Onboard

① Flat Panel Display Connector
② COM2 RS-232/422/485
③ COM1 RS-232
④ ALi M6117C Integrated CPU
⑤ PC/104 Connector
⑥ Socket for DiskOnChip®
⑦ Enhanced IDE Interface
⑧ ITE 8861F I/O chipset
⑨ C&T 65545 Flat Panel/CRT VGA
⑩ 1MB Display Memory

Features

- **Onboard ALi M6117C, Intel 386SX-40 compatible CPU**
- **Onboard 4 MB Fast Page DRAM**
- **C&T 65545 LCD controller with 1MB display memory**





Specifications

General Functions

CPU	ALi M6117C, Intel 80386SX-40 compatible
CPU type	Onboard SQFP
Bus interface	PC/104 bus
BIOS	AMI 128KB FLASH BIOS
Chipset	ALi M6117C
I/O Chipset	ITE8661F
Memory	Onboard 4 MB Fast Page DRAM
Enhanced IDE	Supports up to two IDE devices
FDD interface	Supports up to two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	One bi-directional parallel port. Supports SPP, ECP, and EPP modes
Serial port	One RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4, or disabled individually. (16C550 equivalent)
KB/Mouse connector	8-pin connector supports PS/2 keyboard and mouse
Battery	Lithium battery for data retention
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)

Flat Panel/CRT Interface

Chipset	C&T 65545
Display memory	Onboard 1MB display memory
Display type	Supports non-interlaced CRT and LCD (TFT, DSTN, and MONO) displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 800 x 600 @ 256 colors

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

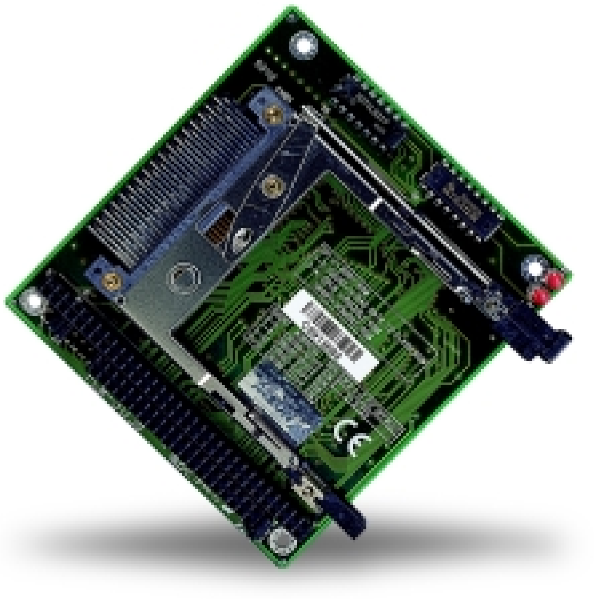
Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board size	3.55" (L) x 3.775" (W) (90 mm x 96 mm)
Weight	0.6 lb. (0.25 Kg)

* Please refer to our website for detailed power consumption information.

PCM-3115B

PCMCIA Module (Two-slot)



PCM-3115B

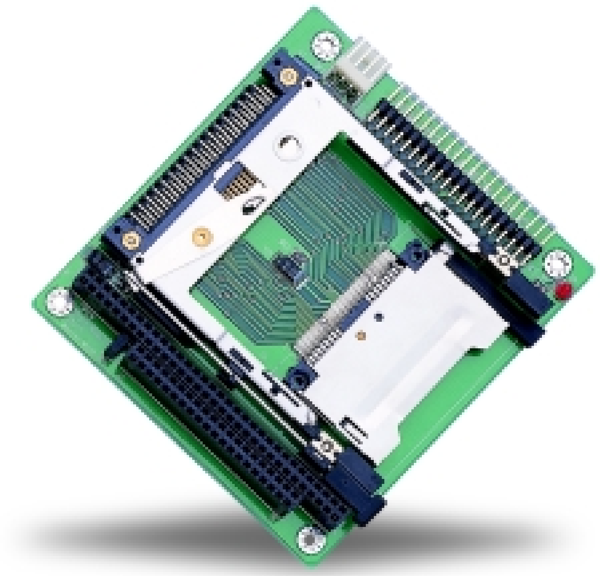
- PCMCIA socket (with ejector)accepts:
  Type I: FLASH/DRAM/ROM memory
  Type II: Fax/modem/network
  Type III: ATA mass stroge
- Complies with PCMIA v.2 10 and JEIDA v.4.1
- 16-bit data bus
- Features two PCMCIA drives
- Programmable 8KB SMD-type boot FLASH BIOS
- Busy status LED
- Supports bootable function from linear Flash Card, ATA hard disk drives, ATA Flash cards, and SRAM cards
- Power requirement: +5V @ 70mA

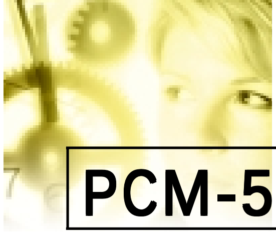
PCM-3116

PC/104 PCMCIA/Compact Flash (ATA) to IDE Module

PCM-3116

- Allowing system to access the PCMCIA/Compact Flash ATA card directly as an IDE Drive
- PCMCIA/Compact Flash(ATA) to IDE interface
- 40-pin IDE connector
- 4-pin standard power connector
- Supports Type I/II/III ATA Flash, ATA HDD, and Compact Flash cards through 68-pin PCMCIA connector or 50-pin Compact Flash connector
- 5V, 70mA power consumption (typical)
- 0° C to 60° C operating temperature range





PCM-5600

PC/104 56K Fax/Modem Module

PCM-5600

- Data mode: V90, K56FLEX, V.34, V.32bis, V.32, V.23, V.22bis, V.21, Bell 212, Bell 103
- Fax Mode: ITU-T G3 Fax modulation CLASS 1 & 2 command, ITU-T T.30, V.17, V.29, V27ter, V.21
- Error correction & data compression: MNP2 - 4(ALT), MNP5 (ALT/CLASS5), V.42, V42bis
- FDSP (Full-duplex speakerphone): Acoustic and line echo cancellation, MIC gain and muting, speaker volume control and muting
- Voice/Audio mode: PCM or ADPCM transmit, Enhanced ADPCM compression/decompression, concurrent DTMF detection, 8-bit monophonic audio data encoding at 11.025 or 7.2KHz
- 2W Leased Line function
- 2M Flash ROM
- Call ID

PCM-3610

PC/104 Isolated RS-232/422/485 Module

PCM-3610

- Two ports with dual 10-pin connectors:
  Port 1: RS-232 or RS-422/PS-485
  Port 2: RS-422/RS-485
- 16C550 UARTs with 16-byte FIFO
- Speeds from 50 to 115 Kbps
- Distance up to 1640 ft/1.2 Km
- I/O address and interrupt selectable
- 500 V_{DC} isolation
- Automatic RS-485 data flow control
- Date flow indicator for troubleshooting
- Surge protection on TX/RX lines
- Power requirement: +5V @ 400mA (typical)
  +5V @ 950mA (maximum)

PCM-3640

PC/104 4-port RS-232 Module

PCM-3640

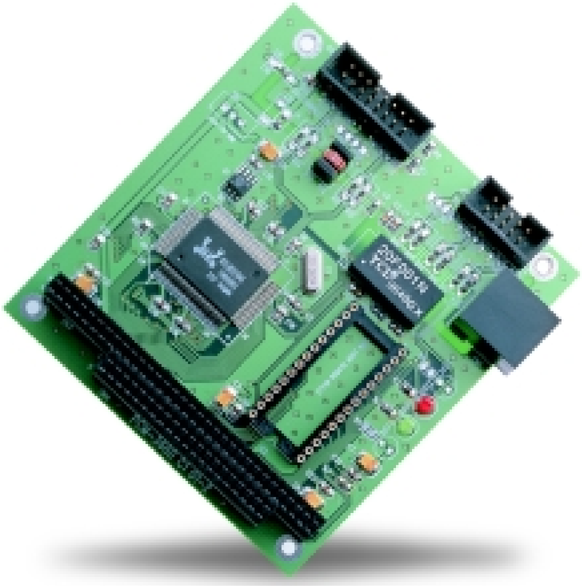
- Four RS-232 ports with 10-pin connectors
- 16C550 UARTs with 16-byte FIFO
- Speeds up to 115 Kbps
- Choose address COM1 to COM4 or other user selectable I/O address
- Individually selectable IRQ for each port (3 to 7, 9 to 12, or 15)
- Full RS-232 interface support (TxD, RxD, RTS, CTS, DTR, DSR, DCD, and GND)
- Power requirement: +5V @ 220mA (typical)

PCM-3660

PC/104 Ethernet Module

PCM-3660

- Hardware and software compatible with Novell NE2000
- 10Mbps throughput
- 8/16-bit data bus (auto-sensing)
- Remote Boot ROM socket for diskless operation
- I/O: 300, 320, 340, or 360H
- IRQ: 3, 4, 5, 9, 10, 11, 12, or 15
- Boot ROM address: 0xC8000, 0xCC000, 0xD0000, or 0xD4000H
- Built-in 10Base-T transceiver
- AUI connector supports external transceiver (MAU) for 10Base-5 and 10Base-FOIRL (fiber optic)
- Optional +5V only 10Base-2 external transceiver module (PCM-3661)
- Single +5V power supply @ 400mA (max.) when external transceiver is not used
- Includes software drivers for ODI, NDIS, PC/TCP, PC-NFS, NCSA, LAN manager, PATHWAY, WFW, and SCO UNIX



PCM-3718H

12-bit DAS Module with Programmable Gain

PCM-3718H

Features

- 16 single-end or 8 differential analog inputs
- 12-bit A/D converter, up to 100 Hz specification sampling rate with DMA transfer
- Two 8-bit digital input/output channels, TTL compatible

Specifications

- Analog Input
  - Channels: 16 single-ended or 8 differential inputs
  - Resolution: 12 bits
  - Input range:
    Bipolar: ±10, ±5, ±2.5, ±1.25, ±0.625
    Unipolar: 0 ~ 10, 0 ~ 5, 0 ~2.5, 0 ~1.25
- Digital Input/Output
  - Channels: Two 8-bit TTL-Level Digital I/O channels
  - Input voltage: Logic 0:0.8V max
    Logic 1:2.0V min
  - Output voltage: Logic 0:0.33V max. @ 6mA (sink)
    Logic 1:3.84V min. @ 6mA (source)

PCM-3724

48-channel DIO Module

PCM-3724

- 48 digital I/O lines
- Channels simulate 8255 PPI mode 0
- Buffered circuits for higher driving capacity than the 8255
- Bit 0 of port C can generate an interrupt to IRQ 2 to 7
- Interrupt triggering rising/falling edge
- Output status readback
- Pin-compatible with Opto-22 I/O module racks
- Transfer rate: 300 Kb/sec typical, 400 Kb/sec. maximum
- Digital output: Logic level 0: 0.5V max @ 24mA sink
- Digital input: Logic level 0: 0.8V max
  Logic level 1: 2.0V min
- Power requirement: +5 V @ 500mA (typical)
  +5 V @ 800mA (max)

PCM-3840

DiskOnChip® 2000 Flash Disk Module

PCM-3840

- 3 sockets, 2 ~ 144MB capacity per socket
- Simple, easy to use interface
- 32-pin DIP JEDEC standard SRAM/EPROM/Flash compatible package
- High performance - superior read/write speeds
- ECC/EDC for high data reliability
- Full boot operability
- Built-in TrueFFS® which provides full hard disk read/write compatibility
- Operates with FLite™ (FAT-FTL/Lite) software for disk operations in O/S-less environments
- Extensive O/S support - DOS, Windows, Windows 95, Windows NT, pSOS+, QNX , VxWorks and others
- Uses 8KB memory window
- Power requirement: +5 V @ 100 mA

PCM-P50/N

PC/104 Vehicle Power Supply Module

PCM-P50/N

PCM-P50/N is a PC/104 Vehicle Power Supply that provides a convenient way to supply power to PC/104 bus equipped products. PCM-P50/N is a high efficiency 50 Watts DC to DC convertor with optional "logic level" remote shutdown feature. PCM-P50/N is designed for embedded vehicular applications and to withstand low ambient temperatures (-40° C), and the shocks and vibration of mobile equipment.

Features

- **Clean and filtered power for the PC/104 bus**
- **PCM-P50: 5 V & 12 V**
- **PCM-P50N: ±5 V & ±12 V**
- **"Load Dump" transient protection**
- **6 to 40 V_{DC} input range**
- **50 Watts output**
- **Stacks on the PC/104 bus**
- **Highly compact, PC/104 compliant**
- **AC bus termination optional**
- **-40 to 85° C operation**
- **Low quiescent current**

PCM-P50
VEHICLE POWER SUPPLY
PC/104

Specifications

- Output Voltage: +5 V @ 10 A, +12 V @ 2 A
  -5 V @ 400 mA, -12 V @ 500 mA (optional)
- Input Range: 6 to 40 V
- Efficiency: up to 95%
- Temp Range: -40 to 85° C
- Size: 3.55" (W) x 3.775" (L) x 0.6" (H)

PCM-3430

PC/104 Ultra wide SCSI

PCM-3430

- LSI SYM53C895 PCI-to-Ultra 2 SCSI I/O Processor
- Performs SCSI data transfers up to 80MB/s, synchronous operations on wide LVD SCSI bus
- Allows total SCSI cable lengths up to 12 meters
- Allows up to 15 LVD SCSI devices on this wide bus
- Complete software solution with BIOS and drivers
- Drives are available for DOS, Novell, Netware, Windows NT, Unix Ware, Windows 95/98, OS/2 and Opensaver
- Power requirement: +5V
- Dimensions: 3.55" (L) x 3.75" (W) (90mm x 96mm)
- Operating temperature: 32 to 140° F (0 to 60° C)

PCM-3730

PC-104 Plus Card

Features

- Supports 3 sets 10/100Base-T Fast Ethernet
- One PC/104 connector for expansion
- Wake on Lan function supported

Specification

General Functions

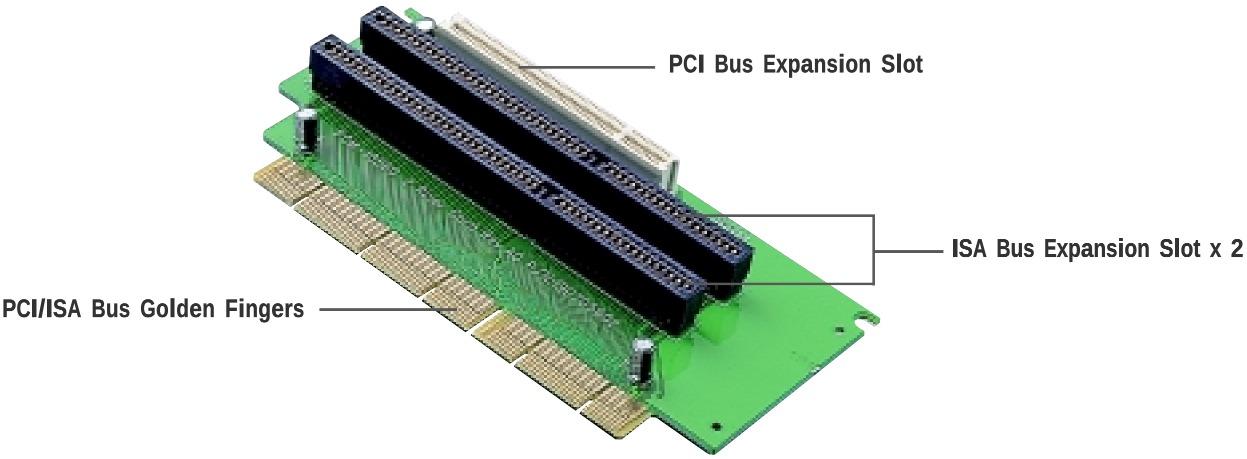
- Chipset: Intel 82559 GD
- Numbers: Three
- Onboard Remove boot Rom function supported (Optional)

Mechanical and environment

- Operating temperature: 32 to 140 °F (0 to 60°C)
- Board Size: 90mm(L) x 96mm(W)
- Weight: unknown

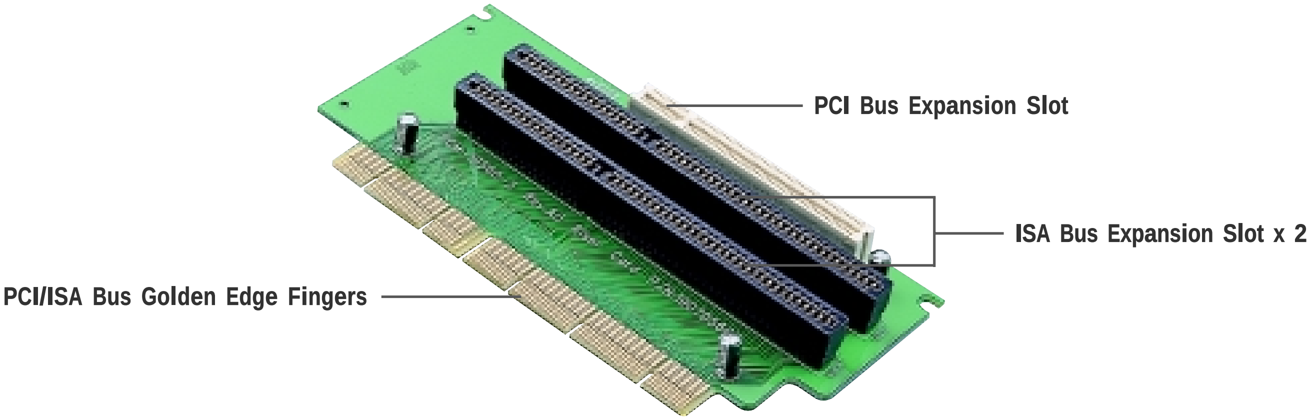
PCM-10560-2

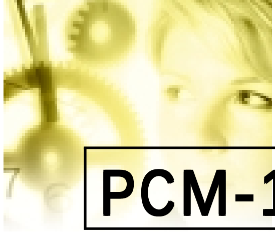
Riser Card with PCI and ISA slots for PCM-4894/MB-562


PCI Bus Expansion Slot
ISA Bus Expansion Slot x 2
PCI/ISA Bus Golden Fingers

PCM-10560-4

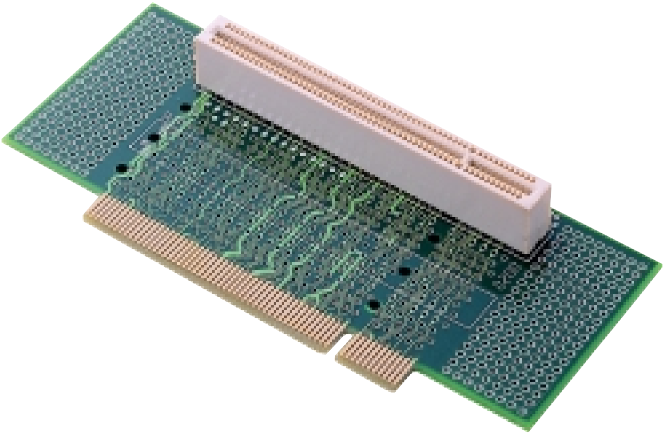
Riser Card with PCI and ISA slots for PCM-4897/4898/MB-562/668


PCI Bus Expansion Slot
ISA Bus Expansion Slot x 2
PCI/ISA Bus Golden Edge Fingers



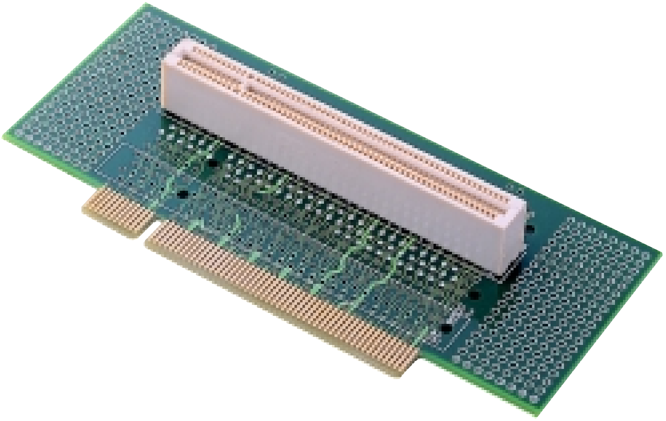
PCM-10589-2/3

PCI Riser Card for PCM-4896L/4896/5896/6890/6890B/7890



PCM-10589-2

* Compatible with PCM-10589-1



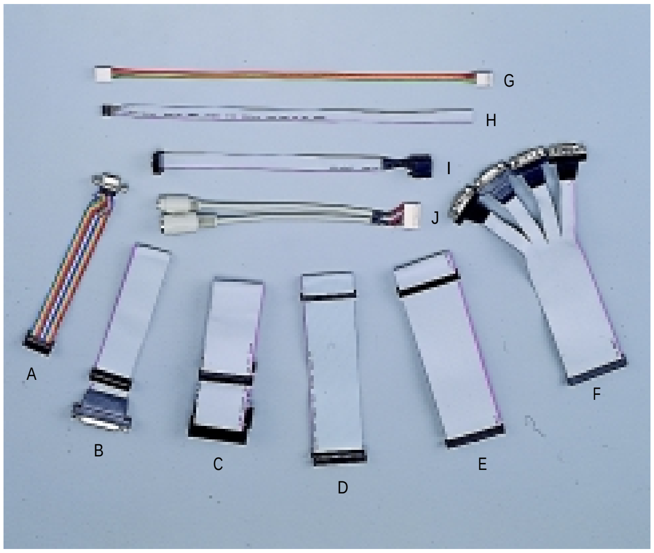
PCM-10589-3

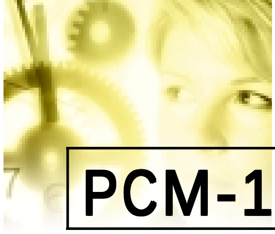
PCM-10489-1

Wiring Kit for PCM-4894

PCM-10489-1 Cable List

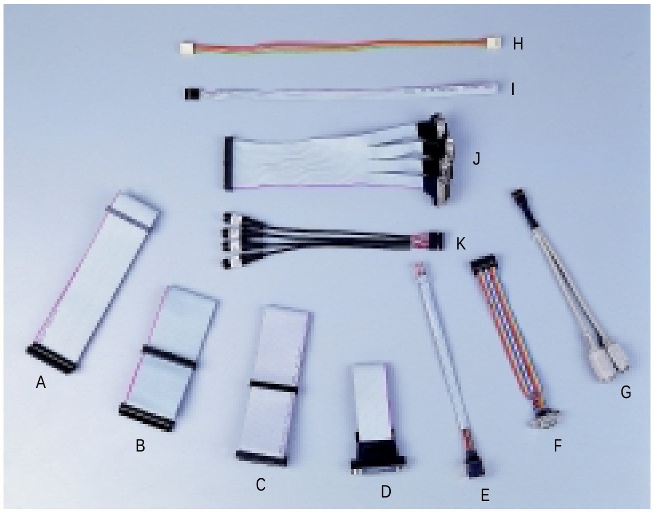
	Part No.	Cable Description	Termination Connector
A	1701150150	VGA CRT	15-pin DSUB
B	1701260301	Parallel Port	15-pin female DSUB
C	1701340700	Dual floppy, 3.5" and 5.25" (34P)	34-pin dual floppy
D	1701440350	2.5" and 1.8" IDE	44-pin, 2mm, female IDC (350mm)
E	1701440500	3.5" IDE (40P)	40-pin, 2.54mm, female IDC (500 mm)
F	1701400180	RS-232 Serial Port, 4 COM Ports	40-pin, 2.54mm
G	1703040301	Peripheral power (-5V and -12V)	4 conductor
H	1701080300	Front panel	8-pin open-end
I	1701100200	Network 10Base-T	RJ-45 8-pin modular jack
J	1700060200	Keyboard and PS/2 mouse	5-pin DIN; 6-pin Mini DIN





PCM-10489-5

Wiring Kit for PCM-4896L/4896/5896/6890/6890B/7890



PCM-10489-5 Wiring Kit

	Part No.	**Cable Description**	**Termination Connector**
A	1701440350	2.5" and 1.8" IDE	44-pin, 2 mm, female IDE (350 mm)
B	170144051	3.5" IDE (40P)	40-pin, 2.54 mm, female IDE (500 mm)
C	1701340601	3.5" floppy (34P)	34-pin dual floppy
D	1701260301	Parallel port	25-pin female DSUB
E	1701080160	Network 10/100BASE-T	RJ-45 extend cable
F	1701150150	VGA CRT	15-pin DSUB
G	1700080201	Keyboard & PS/2 Mouse	5-pin DIN 6-pin MINI DIN
H	1703040301	Peripheral power (-5V and -12V)	4 conductor
I	1701080301	Front panel	8-pin open-end
J	1701400180	RS-232 Serial Port, 4COM Ports	40 pin, 2.00 mm
K	1700140163	Audio Input/Output	Speaker, Line Out, Line In, Mic In

Cooling Fan Series

Industrial Grade Cooling Fans

To address the increasing issue on heat dissipation solution for embedded and industrial applications, AAEON now brings to you a series patented bonded fin design CPU cooler for outstanding thermal performance - FAN-06xx and FAN-03xx.

The coolers' heat sink is made of 99.5 percent Aluminum to increase its thermal conduction rate by at least 15 percent, providing much stability to your system. Weighing one-third less than most traditional coolers, the cooler also provides a 40 percent larger dissipation area and reduced wind resistance.

Moreover, to give you the right combination, AAEON uses fan made by NIDEC, an approved vendor by Intel, in all these coolers with the choice of one or two ball bearing.

Though the CPU cooler works well with any processors, these coolers are remarkably beneficial when installed onto high-speed processors including AMD K6-2/K6-3 and Intel Celeron/FC-370 Pentium III 500MHz or above due to its extraordinary heat dissipation system as well as its high-quality material.

PCM-3524

LVDS Transmitter/Receiver Module

PCM-3524

The PCM-3524 is used for extending the transmission distance between the CPU board and the LCD.
Included are the following:
1. LVDS module PC/104 (transmitter)
2. LVDS module (receiver)
3. 50 pin flat cable (from transmitter to CPU Board)
4. 3 meter LVDS cable (standard length) miscellaneous mounting hardware

Features

- Supports TFT LCD only
- 20 to 65MHz shiff clock supported
- Transmitter strobe (falling edge or rising edge)
- Single power supply (3.3V or 5V)
- Chipset (Tx + Rx) power consumption < 500mW (Typical)
- Power-down mode (< 1.0mW total)
- Single pixel per clock XGA (1024 * 768) ready
- Supports VGA, SVGA, XGA and higher address ability
- Up to 340 Mbytes/sec. bandwidth
- Up to 2.6 Gbps throughput
- 290mV swing LVDS devices for low EMI
- Falling edge data strobe Receiver
- Compatible with TIA/EIA-644 LVDS standard
- ESD rating > 7kV

Notes:

* The length of usable LVDS cable is dependent on the LCD. In other words, with the many LCD's available on the market and their respective specifications this unit may not operate with all of them. It is strongly suggests you contact AAEON to determine if this unit interfaces with your LCD.

** The standard LVDS cable is 3 meters, for length other than 3 meters a minimal order is required

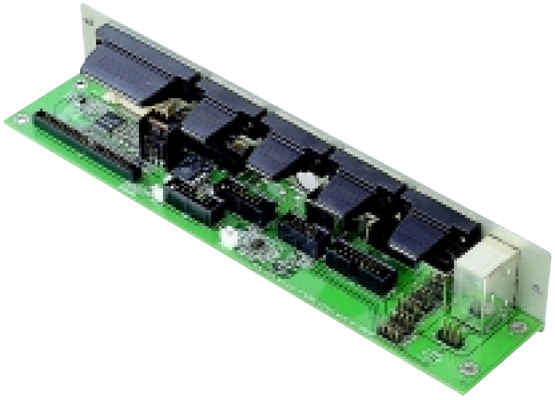
PCM-3526

Rear Panel Adapter Kit

PCM-3526

The PCM-3526 Rear Panel Adapter Kit offers an ideal solution for key embedded applications, supporting complete easy-to-use external connectors that provide the link between onboard internal functions and your external devices.

This rear panel adapter Kit is equipped with a DB-15 VGA connector, standard PS/2 keyboard and mouse connectors, a parallel port, four serial ports, dual USB ports , a RJ-45 Ethernet connector, and audio in/out phone jacks. To give you just the right function, the PCM-3526 also comes with Panel Link interface that supports TFT panels of up to 24-bit through a 3-to-15-meter cable for fast long-distance transmission.

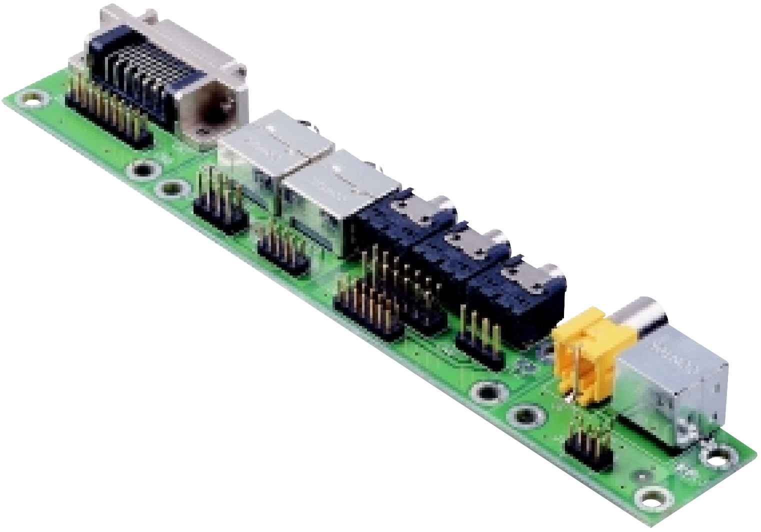


Features

- Supports complete easy-to-use external connectors
- Panel Link interface supports TFT Panels up to 24-bit through a 3-meter cable

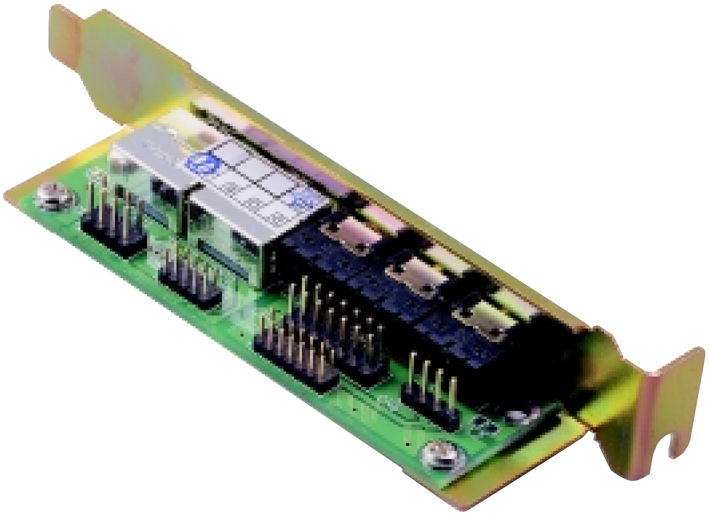
PCM-3532

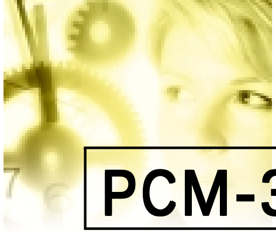
Daughter Board for Gene Series



PCM-3533

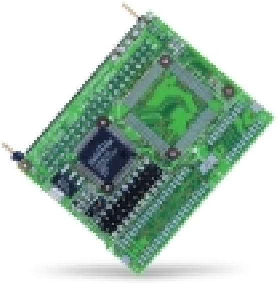
Daughter Board for SBC-659



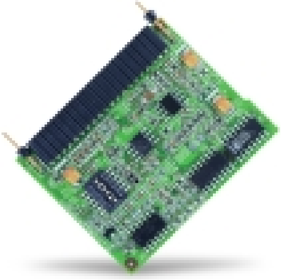


PCM-3534/P

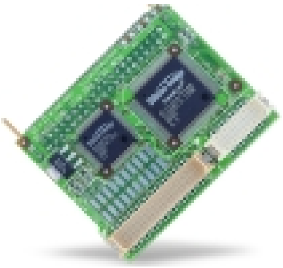
DVI/DVO TTL Module



PCM-3534P



PCM-3534P rear



PCM-3534

PCM-3534 rear

Feature:

- Interface to the display controller with 12-bit digital flat panel signal output. (Intel 815E, VIA 8604, etc.)
- Generates both TTL LCD signals and Panel Link Interface for TFT LCD
- For TTL Signal outputs, ether 18-bit or 36-bit TFT LCD signal outputs can be selected.
- Panel type defined by onboard EDID data. This utility provides the flexibility of user programmability
- LCD power sequence is included. Backlight control signal interface is also provided.
- Supports 3V or 5V LCD Panel
- Scaleable Bandwidth: VGA (640 x 480) to UXGA (1600 x 1200)(PCM-3534P)
- Receiver Detection: Supports Hot Plug Detection (PCM-3534P)
- Cable Distance Support: Over 5M with twisted pairs (PCM-3534P)

Specifications

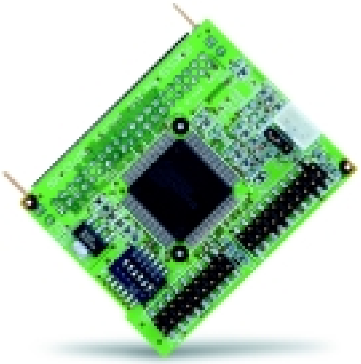
- Two fool proof connectors for 18/36-bit TTL LCD Panel
- One 20-pin header for Panel Link interface signal
- 3.3V/5V LCD interface power is provided
- Pre-programmed EDID to support unique LCD Panel. And one utility to provide different LCD Panel type with onboard programmed flexibility
- LCD Panel can support SVGA or XGA resolution

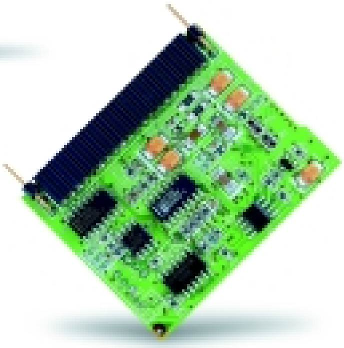
PCM-3535

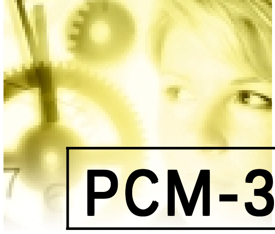
DVI/DVO LVDS Module

Feature:

- Scaleable Bandwidth: VGA (640 x 480) to UXGA (1600 x 1200)
- Supports LVDS Channel (3 data pairs & 1 clock pair) for 18/24 bit LVDS Panel
- Cable Distance Support: 3M with twisted pairs

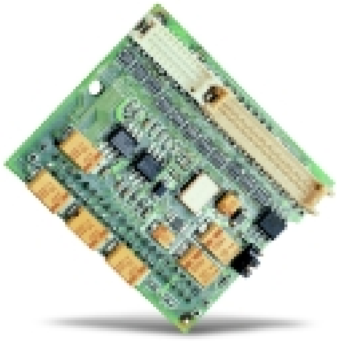






PCM-3536

DVI/DVO TTL Module



Features

- Direct interface with major chipset, Intel 815E, VIA 8604, etc., via 12-bit DVO port.
- Unique scaling capability to support wide range resolution from VGA to XGA including non-standard mode
- For TTL signal outputs, support 18/24/36/48-bit TFT LCD panel
- Panel type defined by onboard EDID data. Attach utility file provides the flexibility of user programmability
- LCD power sequence is included. Backlight control signal interface is also provided.
- Support 3.3V or 5V LCD panel

Specifications

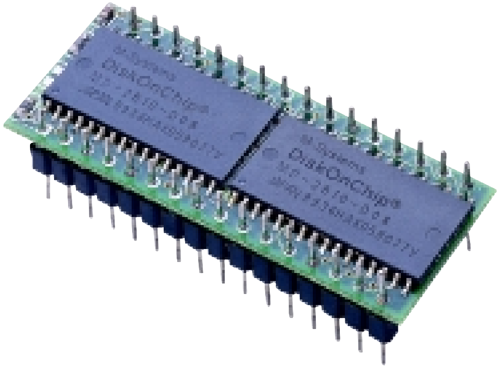
- Two fool proof connectors for18/24/36/48-bit TFT LCD Panel
- 3.3V/5V LCD power is provided
- Pre-programmed EDID as default data for unique LCD panel and one additional utility to provide different LCD panel type with on-board programmed flexibility.
- LCD panel can support from VGA to XGA resolution including non-standard mode.

PCM-3528

Memory Device DiskOnChip® (TSOP)

PCM-3528

The PCM-3528 module is designed with latest single-die DiskOnChip® Millennium TSOP chips and fully compatible with conventional DIP DiskOnChip®. They are available in 8, 16, 24 and 32MB sizes.



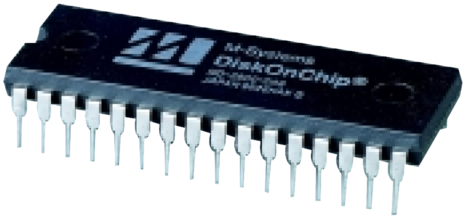
Features

- Simple, easy-to-use interface
- 32-pin DIP JEDEC standard
- EPROM/Flash compatible package
- High-performance superior read/write speeds
- ECC/EDC for high data reliability
- Full Boot capability
- Built-in TrueFFS® provides full hard disk read/write compatibility
- Operates with Flite (FAT-FTL-Lite) in O/S-less environment
- Broad O/S support-DOS, Windows, Windows 9X, Windows CE, Windows NT, etc
- Uses a 8Kbyte memory window

DiskOnChip®

M-Systems DiskOnChip®

DiskOnChip®
2000
M-Systems
Flash Disk Pioneers
MD2200-D12-V1.01
S/N: 71814009



DiskOnChip® 2000 Series

The M-Systems DiskOnChip® 2000 is a new generation of high-performance single chip Flash Disk. The DiskOnChip® provides a Flash Disk in a standard 32-pin DIP package.

This unique data storage solution offers a better, faster, and more cost-effective Flash Disk for applications with limited space and modest disk capacity requirements. The DiskOnChip® 2000 provides a Flash Disk that does not require any additional bus, slot, or connector. Simply insert the DiskOnChip® 2000 into a 32-pin socket on your CPU board, at a minimal installation cost, and you have a bootable Flash Disk with capacities ranging from 16MB to 288MB.

DiskOnChip® Millennium

The DiskOnChip® Millennium offers a standard EEPROM-like pin-out and supports local and ISA Bus interfaces, freeing the system integrator from having to meet the requirements of the more complex IDE/ ATA interface.

The standard capacity is 8MB and future models are planned for 16MB and up.

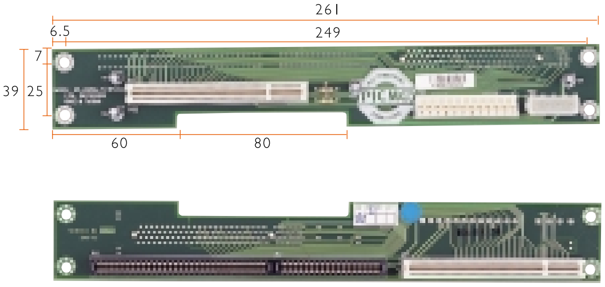
Features

- **Simple, easy-to-use interface**
- **32-Pin DIP JEDEC standard**
- **EPROM/Flash compatible package**
- **High-performance superior read/write speeds**
- **ECC/EDC for high data reliability**
- **Full Boot capability**
- **Built-in TrueFFS® provides full hard disk read/write compatibility**
- **Operates with Flite (FAT-FTL-Lite) in O/S-less environments**
- **Broad O/S support-DOS, Windows, Windows 9X, Windows CE, Windows NT, etc**
- **Uses 8 Kbyte memory window**

Passive Backplanes

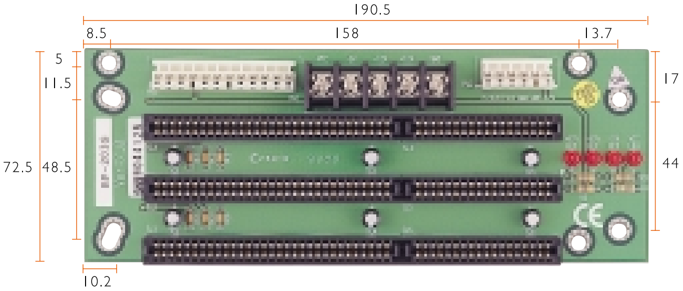
Model Name	Backplane Type	Slots						Power connector	Configuration Standard
		Total	PISA	PCI	ISA	PICMG	System		
BP-202SG-P1	PCI/ISA	2	0	1	0	1	Single	+/-5V,+/-12V	PICMG
BP-203SI	ISA	3	0	0	3	0	Single	+/-5V,+/-12V	ISA
BP-204SG-P1	PCI/ISA	4	0	1	2	1	Single	+/-5V,+/-12V	PICMG
BP-204SS-P1	ISA/PISA	4	2	1	1	0	Single	+/-5V,+/-12V	PISA
BP-204SS-P2	PCI/ISA/PISA	4	1	2	1	0	Single	+/-5V,+/-12V, +3 V	PICMG
BP-204SI	ISA	4	0	0	4	0	Single	+/-5V,+/-12V	ISA
BP-205SG-P2	PCI/ISA	5	0	2	2	1	Single	+/-5V,+/-12V	PICMG
BP-206SG-P3	PCI/ISA	6	0	3	2	1	Single	+/-5V,+/-12V,+3V	PICMG
BP-206SI	ISA	6	0	0	6	0	Single	+/-5V,+/-12V	ISA
BP-206SS-P4	PISA	6	3	4	0	0	Single	+/-5V,+/-12V,+3V	PISA
BP-208SG-P3	PCI/ISA	8	0	3	4	1	Single	+/-5V,+/-12V	PICMG
BP-208SI	ISA	8	0	0	8	0	Single	+/-5V,+/-12V	ISA
BP-209SG-P4	PCI/ISA	9	0	4	3	2	Single	+/-5V,+/-12V,+3V	PICMG
BP-212SI-V60	ISA	12	0	0	12	0	Single	+/-5V,+/-12V	ISA
BP-213DG-P6	PCI/ISA	13	0	7	4	3	Dual	+/-5V,+/-12V,+3V	PICMG
BP-214DI	ISA	14	0	0	14	0	Dual	+/-5V,+/-12V	ISA
BP-214SG-P4	PCI/ISA	14	0	4	8	2	Single	+/-5V,+/-12V,+3V	PICMG
BP-214SG-P7	PCI/ISA	14	0	7	5	2	Single	+/-5V,+/-12V,+3V	PICMG
BP-214SI	ISA	14	0	0	14	0	Single	+/-5V,+/-12V	ISA
BP-214SS-P4	ISA/PISA	14	2	4	0	8	Single	+/-5V,+/-12V,+3V	PISA
BP-219SG-P4	PCI/ISA	19	0	4	13	2	Single	+/-5V,+/-12V,+3V	PICMG
BP-220SI	ISA	20	0	0	20	0	Single	+/-5V,+/-12V	ISA
BP-220DI	ISA	20	0	0	20	0	Dual	+/-5V,+/-12V	ISA
BP-220QI	ISA	20	0	0	20	0	Four	+/-5V,+/-12V	ISA

Passive Backplanes



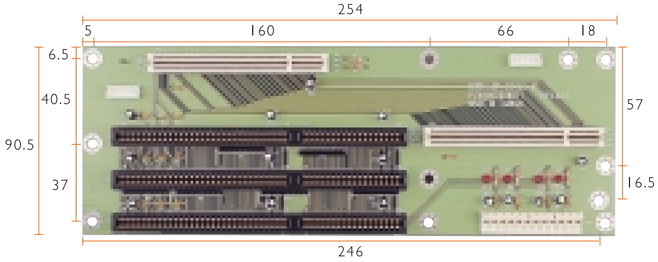
261
6.5
249
7
39
25
60
80

BP-202SG-P1
1 x PCI, 1 x PICMG



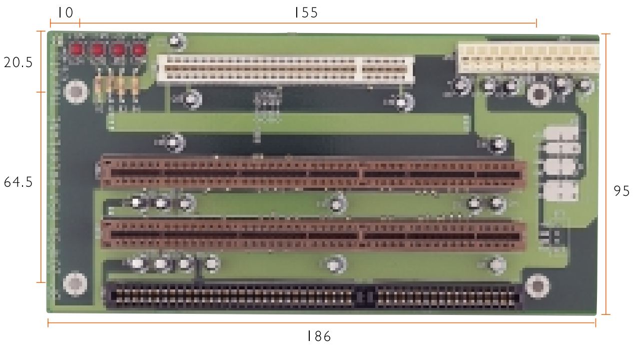
190.5
8.5
158
13.7
5
11.5
72.5
48.5
17
44
10.2

BP-203SI
3 x ISA



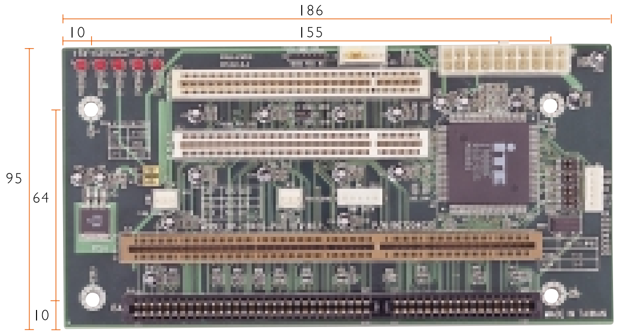
254
5
160
66
18
6.5
40.5
90.5
37
57
16.5
246

BP-204SG-P1
1 x PCI, 2 x ISA, 1 x PICMG



10
155
20.5
64.5
95
186

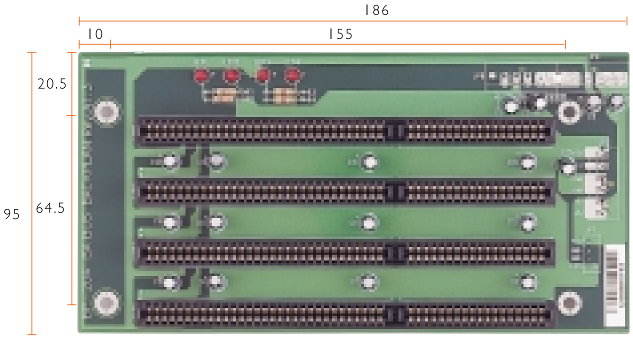
BP-204SS-P1
1 x PCI, 2 x PISA, 1 x ISA



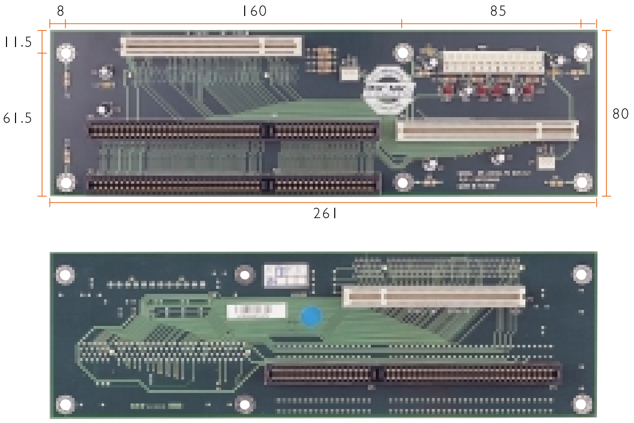
186
10
155
95
64
10

BP-204SS-P2
1 x PCI, 1 x PISA, 1 x ISA, 1 x PCI (PICMG)

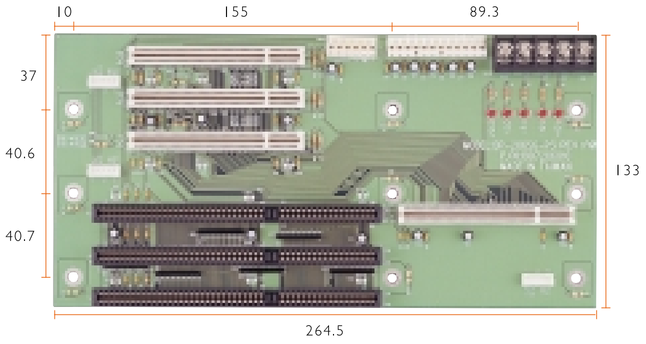
Passive Backplanes


186
10
155
20.5
95
64.5

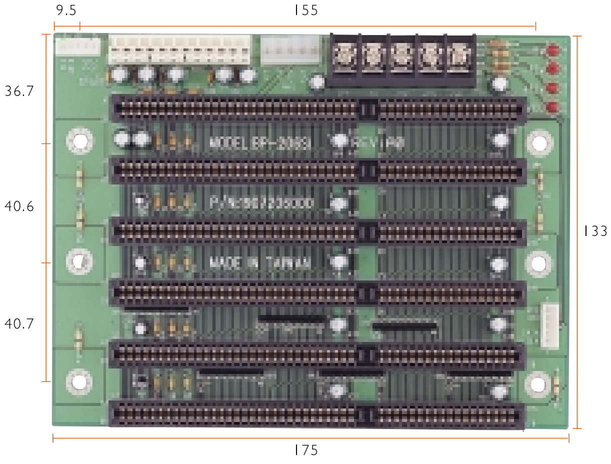
BP-204SI
4 x ISA


8
160
85
11.5
61.5
80
261

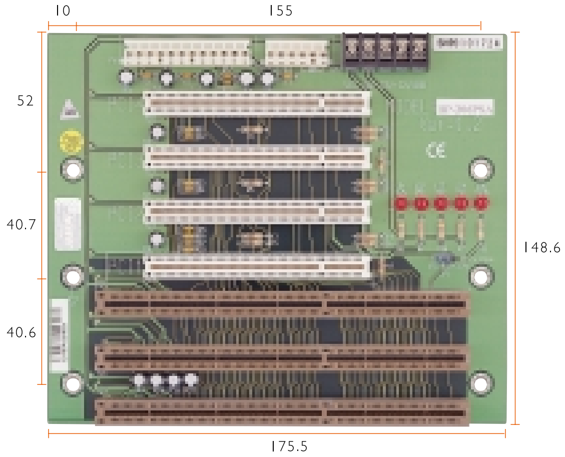
BP-205SG-P2
2 x PCI, 2 x ISA, 1 x PICMG


10
155
89.3
37
40.6
40.7
133
264.5

BP-206SG-P3
3 x PCI, 2 x ISA, 1 x PICMG

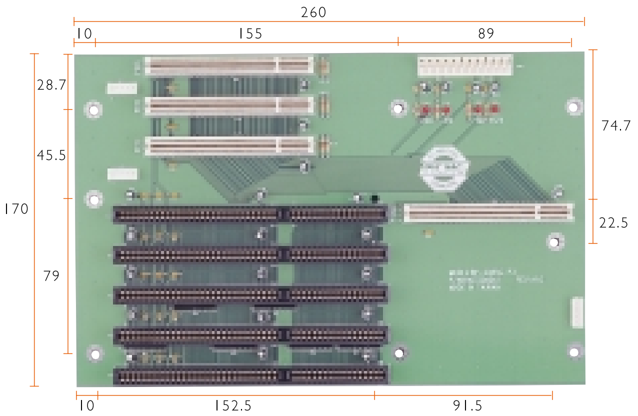

9.5
155
36.7
40.6
40.7
133
175

BP-206SI
6 x ISA

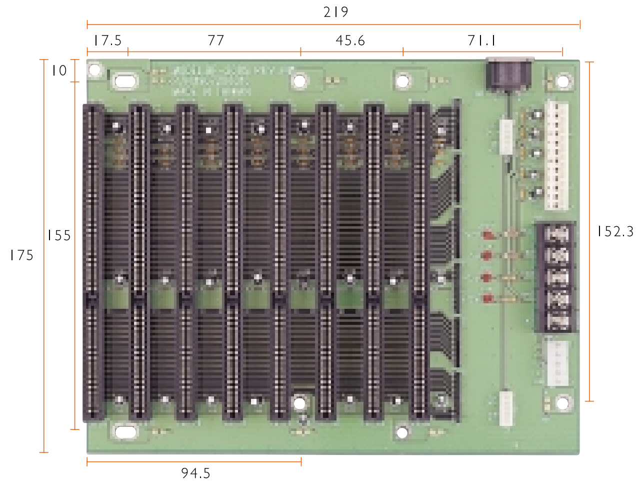

10
155
52
40.7
40.6
148.6
175.5

BP-206SS-P4
4 x PCI, 3 x PISA

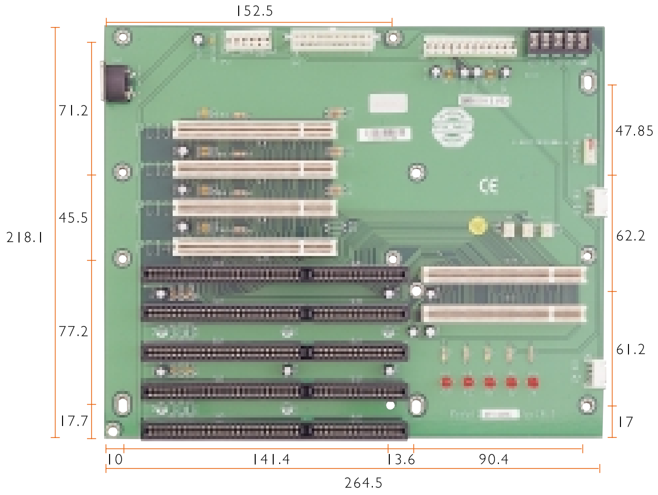
Passive Backplanes


260
10
155
89
28.7
45.5
170
79
74.7
22.5
10
152.5
91.5

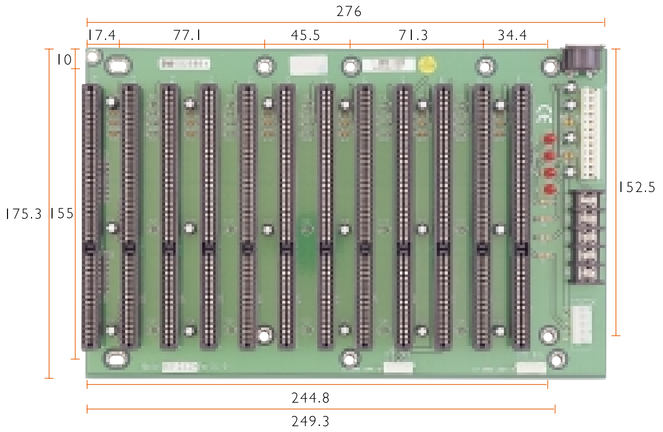
BP-208SG-P3
3 x PCI, 4 x ISA, 1 x PICMG


219
17.5
77
45.6
71.1
10
155
175
152.3
94.5

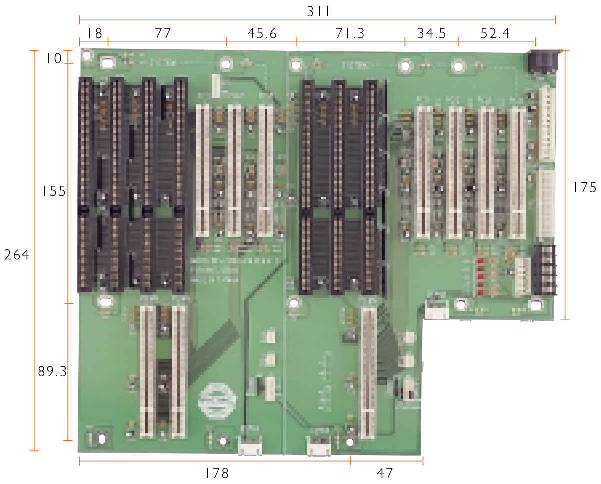
BP-208SI
8 x ISA


152.5
71.2
45.5
218.1
77.2
17.7
47.85
62.2
61.2
17
10
141.4
13.6
90.4
264.5

BP-209SG-P4
4 x PCI, 3 x ISA, 2 x PICMG

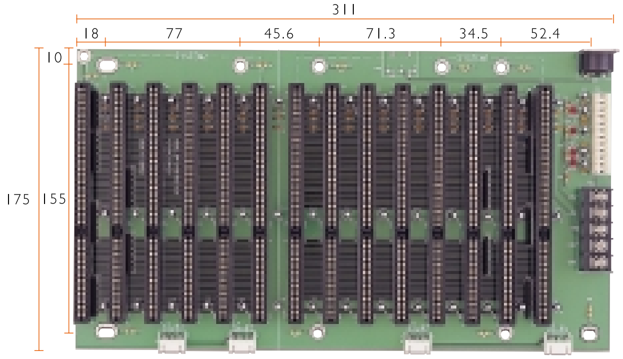

276
17.4
77.1
45.5
71.3
34.4
10
175.3
155
152.5
244.8
249.3

BP-212SI-V60
12 x ISA

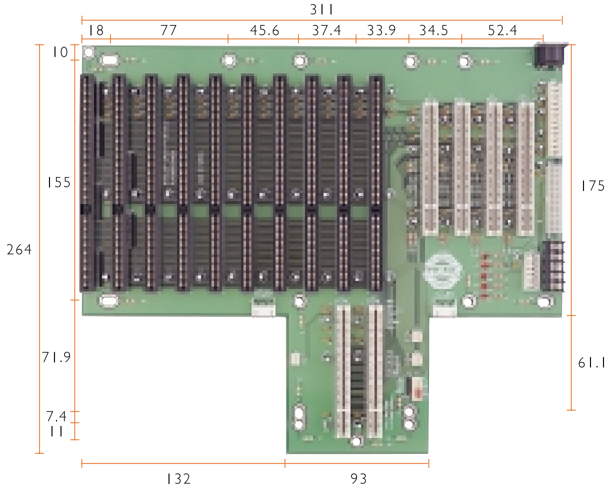

311
18
77
45.6
71.3
34.5
52.4
10
155
264
89.3
175
178
47

BP-213DG-P6
Dual System, 7 x PCI, 4 x ISA, 3 x PICMG

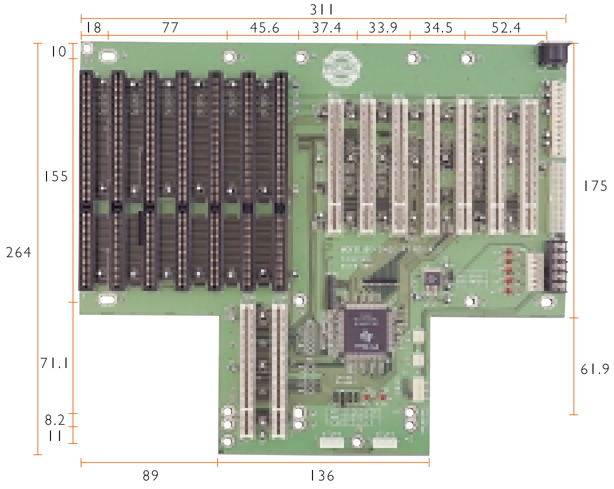
Passive Backplanes


311
18
77
45.6
71.3
34.5
52.4
10
175
155

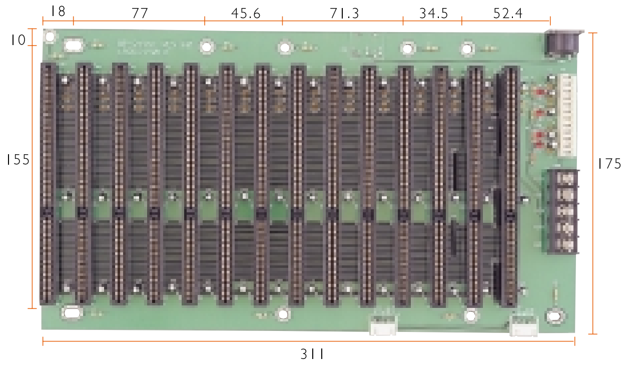
BP-214DI
Dual System, 14 x ISA


311
18
77
45.6
37.4
33.9
34.5
52.4
10
155
264
71.9
7.4
11
175
61.1
132
93

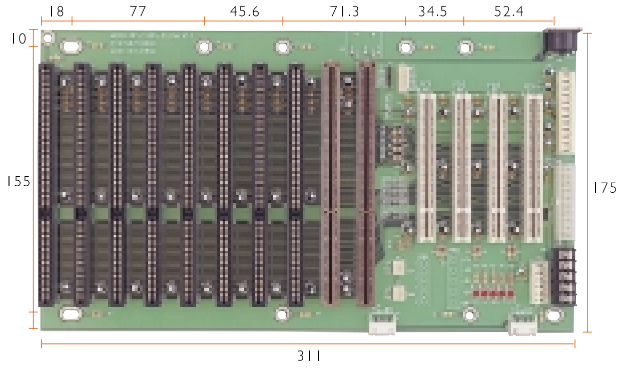
BP-214SG-P4
4 x PCI, 8 x ISA, 2 x PICMG


311
18
77
45.6
37.4
33.9
34.5
52.4
10
155
264
71.1
8.2
11
175
61.9
89
136

BP-214SG-P7
7 x PCI, 5 x ISA, 2 x PICMG

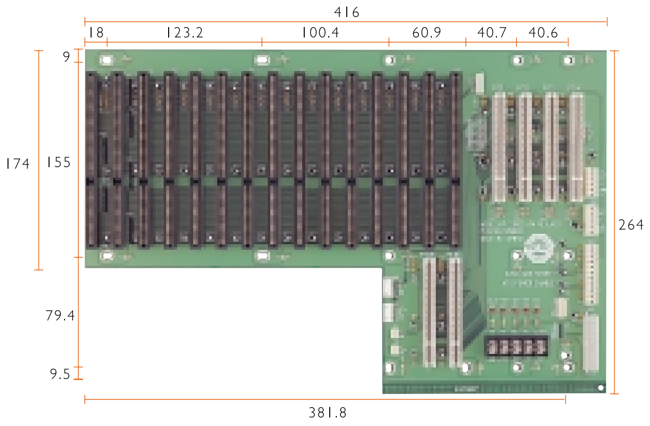

18
77
45.6
71.3
34.5
52.4
10
155
175
311

BP-214SI
14 x ISA

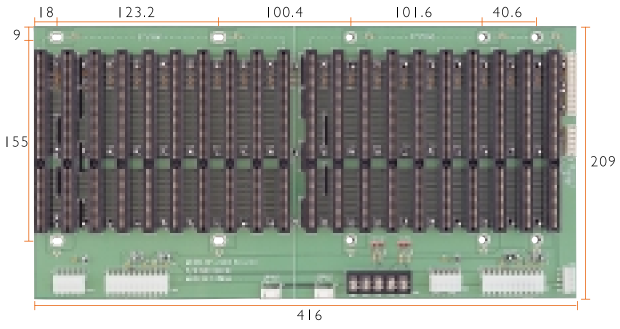

18
77
45.6
71.3
34.5
52.4
10
155
175
311

BP-214SS-P4
4 x PCI, 2 x PISA, 8 x ISA

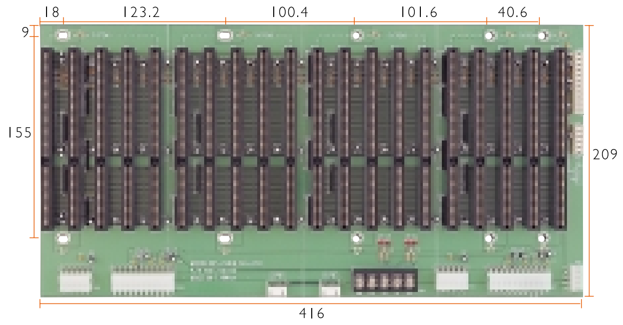
Passive Backplanes


416
18
123.2
100.4
60.9
40.7
40.6
9
174
155
79.4
9.5
264
381.8

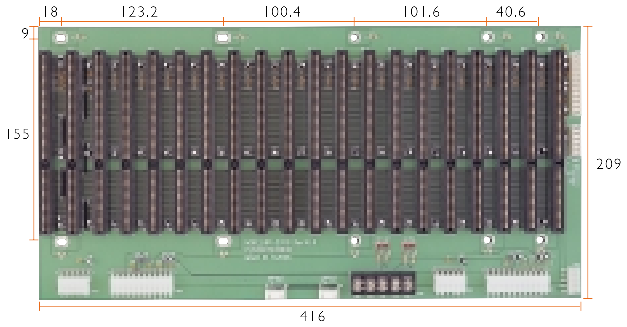
BP-219SG-P4
4 x PCI, 13 x ISA, 2 x PICMG


18
123.2
100.4
101.6
40.6
9
155
209
416

BP-220DI
Dual System, 20 x ISA


18
123.2
100.4
101.6
40.6
9
155
209
416

BP-220QI
Four System, 20 x ISA

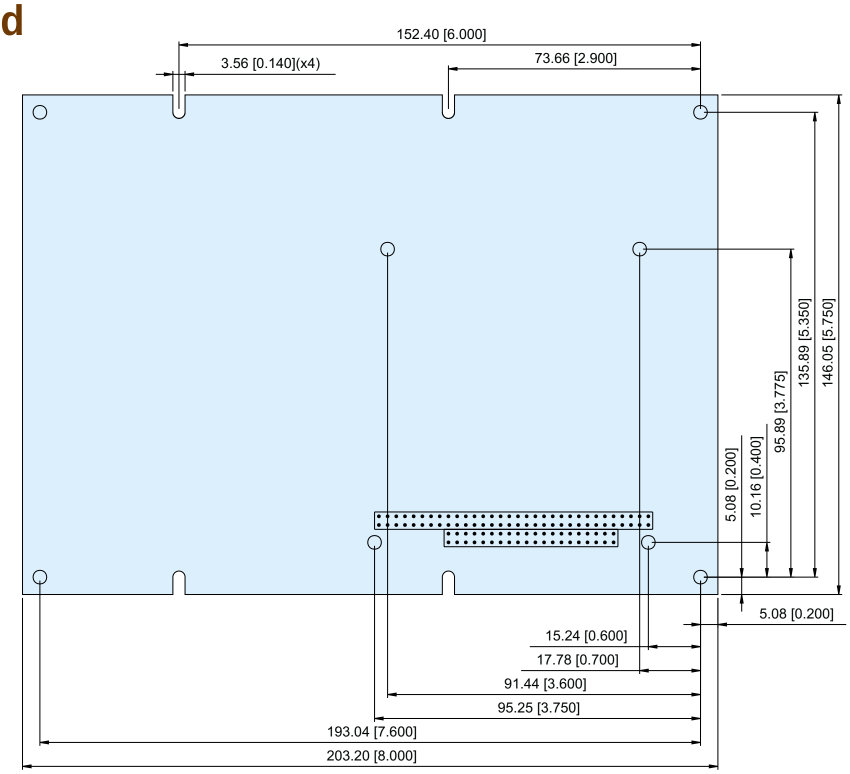

18
123.2
100.4
101.6
40.6
9
155
209
416

BP-220SI
Single System, 20 x ISA

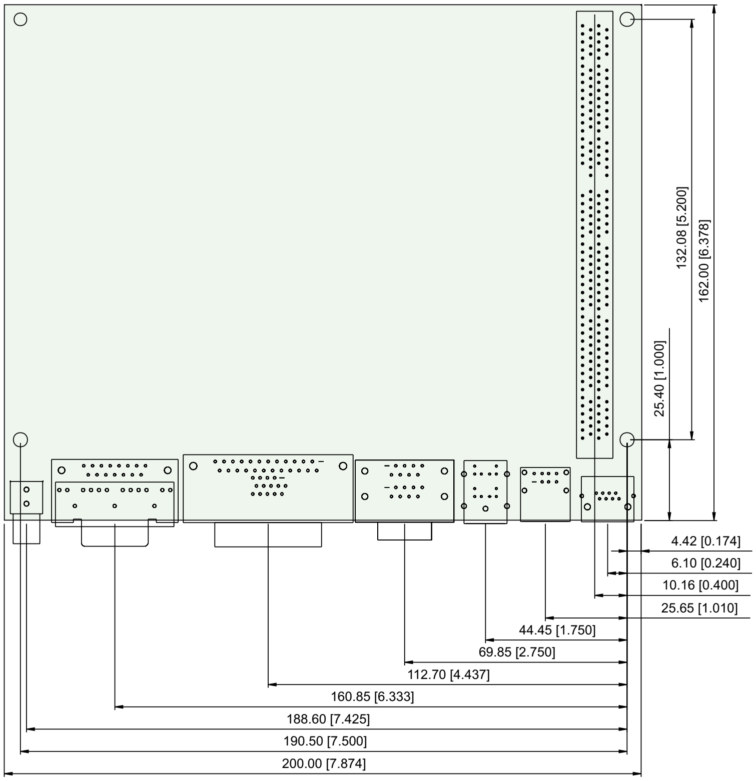
Product Dimension

Unit : mm [inch]

Compact Board


152.40 [6.000]
3.56 [0.140](x4)
73.66 [2.900]
146.05 [5.750]
135.89 [5.350]
95.89 [3.775]
10.16 [0.400]
5.08 [0.200]
5.08 [0.200]
15.24 [0.600]
17.78 [0.700]
91.44 [3.600]
95.25 [3.750]
193.04 [7.600]
203.20 [8.000]

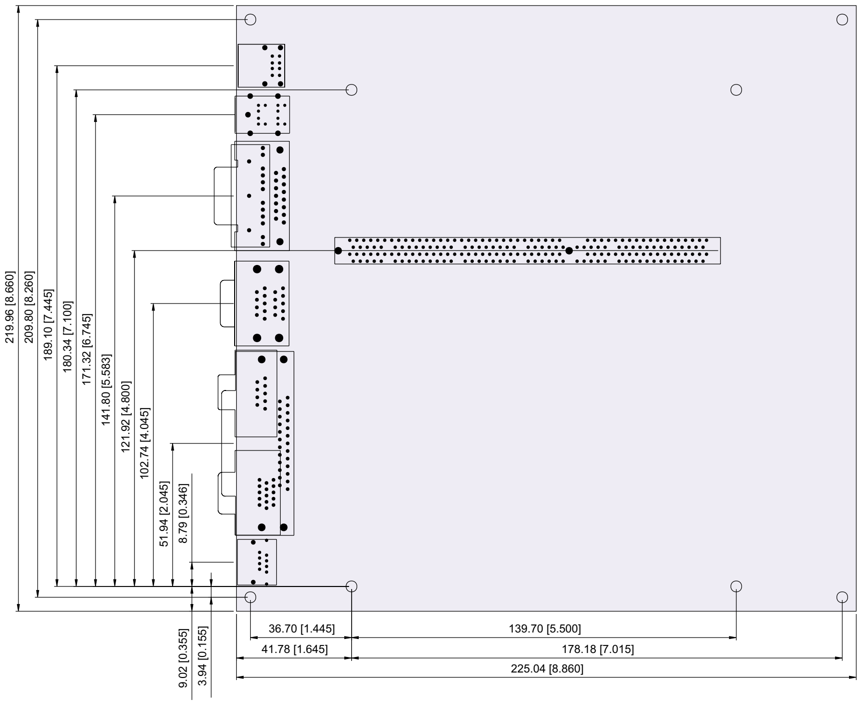
Media PC


132.08 [5.200]
162.00 [6.378]
25.40 [1.000]
4.42 [0.174]
6.10 [0.240]
10.16 [0.400]
25.65 [1.010]
44.45 [1.750]
69.85 [2.750]
112.70 [4.437]
160.85 [6.333]
188.60 [7.425]
190.50 [7.500]
200.00 [7.874]

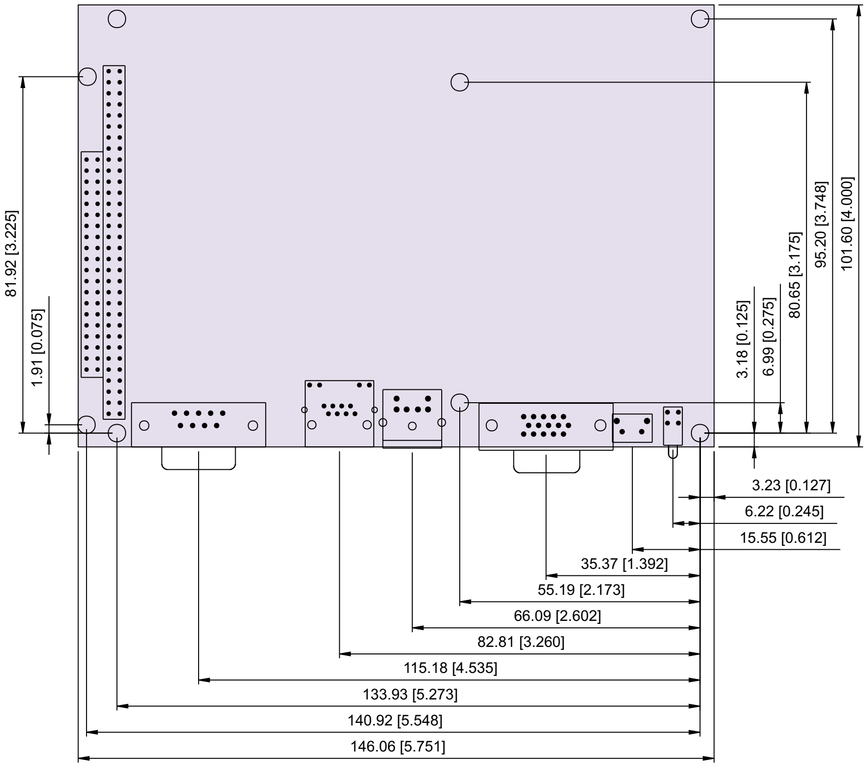
Product Dimension

Unit : mm [inch]

LPX-size SBC


219.96 [8.660]
209.80 [8.260]
189.10 [7.445]
180.34 [7.100]
171.32 [6.745]
141.80 [5.583]
121.92 [4.800]
102.74 [4.045]
51.94 [2.045]
8.79 [0.346]
9.02 [0.355]
3.94 [0.155]
36.70 [1.445]
139.70 [5.500]
41.78 [1.645]
178.18 [7.015]
225.04 [8.860]

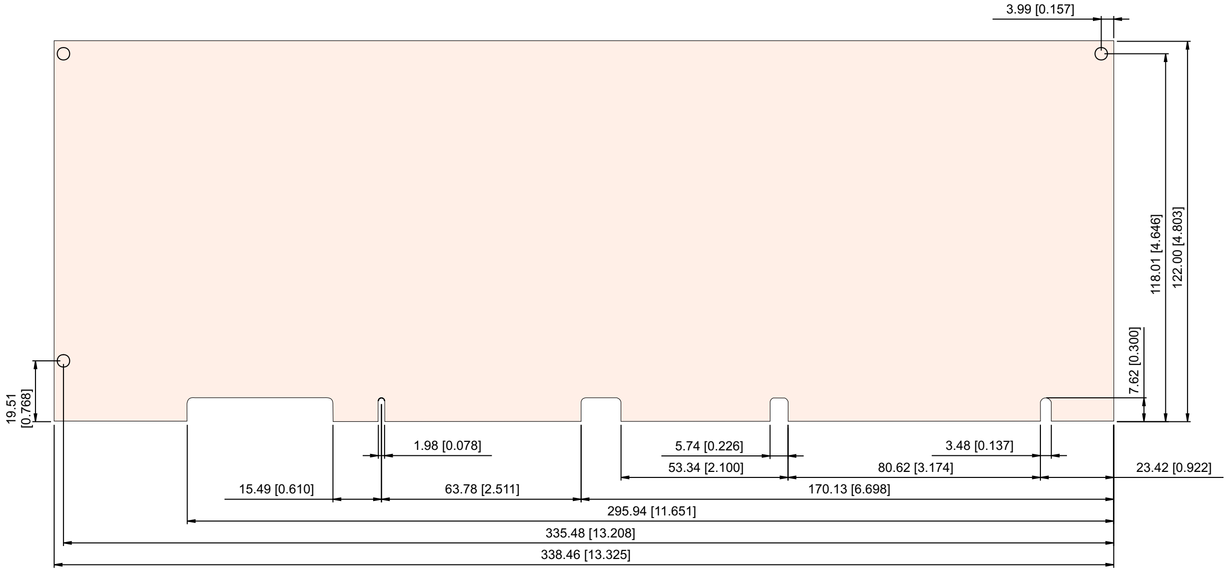
SubCompact Board


81.92 [3.225]
1.91 [0.075]
3.18 [0.125]
6.99 [0.275]
80.65 [3.175]
95.20 [3.748]
101.60 [4.000]
3.23 [0.127]
6.22 [0.245]
15.55 [0.612]
35.37 [1.392]
55.19 [2.173]
66.09 [2.602]
82.81 [3.260]
115.18 [4.535]
133.93 [5.273]
140.92 [5.548]
146.06 [5.751]

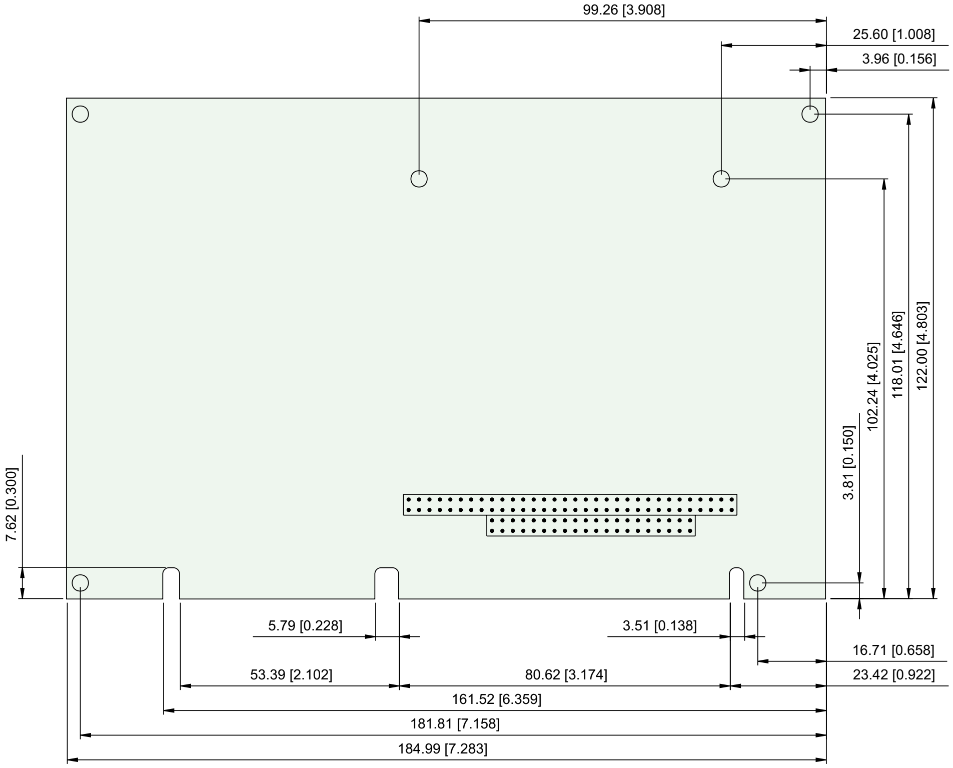
Product Dimension

Unit : mm [inch]

Full-size CPU Card


3.99 [0.157]
118.01 [4.646]
122.00 [4.803]
7.62 [0.300]
19.51 [0.768]
1.98 [0.078]
5.74 [0.226]
3.48 [0.137]
53.34 [2.100]
80.62 [3.174]
23.42 [0.922]
15.49 [0.610]
63.78 [2.511]
170.13 [6.698]
295.94 [11.651]
335.48 [13.208]
338.46 [13.325]

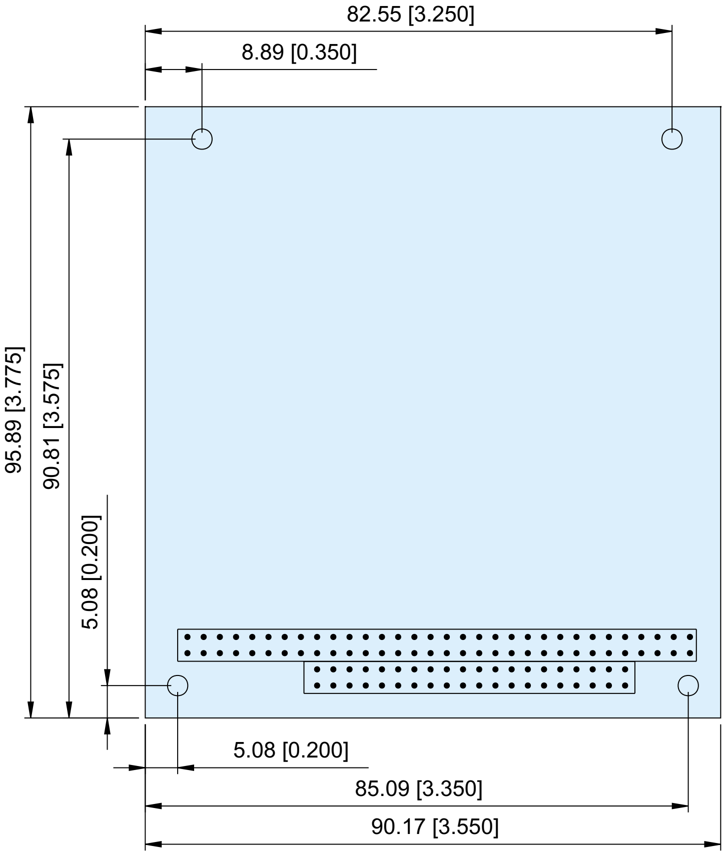
Half-size CPU Card


99.26 [3.908]
25.60 [1.008]
3.96 [0.156]
3.81 [0.150]
102.24 [4.025]
118.01 [4.646]
122.00 [4.803]
7.62 [0.300]
5.79 [0.228]
3.51 [0.138]
16.71 [0.658]
53.39 [2.102]
80.62 [3.174]
23.42 [0.922]
161.52 [6.359]
181.81 [7.158]
184.99 [7.283]

Product Dimension

Unit : mm [inch]

PC / 104 Module



82.55 [3.250]
8.89 [0.350]
95.89 [3.775]
90.81 [3.575]
5.08 [0.200]
5.08 [0.200]
85.09 [3.350]
90.17 [3.550]

Ordering Information

Compact Boards

	Description	Accessories							
		Wiring Kit		Riser Card			Drivers		
		PCM 10489-1	PCM 10489-5	PCM 10560-2	PCM 10560-4	PCM 10589-1	VGA	Ethernet	Audio
PCM-6896	FC/Socket 370 Compact Board with LCD, Ethernet, Audio, AGP2X, & 4 USB Ports						√	√	√
PCM-6890B	FC/Socket 370 Compact Board with LCD, Ethernet, Audio, & 4 COMs					√	√	√	√
PCM-6890	Socket 370 Compact Board with LCD, Ethernet, Audio, & 4 COMs		√			√	√	√	√
PCM-5896	Super 7 Compact Board with LCD, Ethernet, Audio, & 4 COMs		√			√	√	√	√
PCM-4896	NS Geodde Compact Board with LCD, Ethernet, Audio, 4 COMs, 4 D I/O		√			√	√	√	√
PCM-4896L	NS Geodde Compact Board with LCD, Ethernet, Audio, 4 COMs, 4 D I/O		√			√	√	√	√
PCM-4894	486DX5-133 Compact Board with LCD, Ethernet, 4 COMs, & 4 D I/O	√		√			√	√	
Note: Wiring Kit and Riser Card are Optional for Compact Boards.									

Media PCs

	Description	Accessories									
		Cable						Riser Card	Drivers		
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	LVDS cable	PCM-10560-3	VGA	Ethernet	Audio
PCM-6898	FC/Socket 370 Media PC with LCD, Ethernet, Audio, AGP 4X, TV Out, SSD/Compact Flash, PC/104 & PC/104 Plus, 4 USB ports, 4 COM Ports	1	1	1	1	1			√	√	√
PCM-4898	NS Geode Media PC with LCD, Audio, TV Out, LAN, 4 COMs, LVDS, & 4 D I/O	1	1					√	√	√	√
PCM-4897	NS Geode Media PC with LCD, Audio, TV Out, & 2 COMs	1	1	1				√	√		√

LPX-size SBCs

	Description	Accessories									
		Cable						Riser Card	Drivers		
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	LVDS cable	PCM-10560-2	VGA	Ethernet	Audio
MB-662	FC/Socket 370 LPX Board with LCD, TV Out, LAN, Audio, 4 COMs, & 4 D I/O	2	1					√	√	√	√
MB-668	FC/Socket 370 LPX Board with LCD, LAN, Audio, & 4 COMs	2	1					√	√	√	√
MB-562	Socket 7 LPX Board with LCD, TV Out, LAN, Audio, 4 COMs, & 4 D I/O	2	1	K/B only	1	1		√	√	√	√

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Note: All trademarks are properties of their respective owners.

Note: For detailed power consumption information, please check AAEON website from time to time.

Note: Unless otherwise indicated, all AAEON SBCs are shipped without the following components: CPU, Fan/Heatsink, DRAM, and DiskOnChip.

Ordering Information

SubCompact Boards

	Description	Accessories								
		Cable						Drivers		
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	LVDS cable	VGA	Ethernet	Audio
Gene 5310	Intel Low-power SubCompact Board with LCD, LVDS, Dual Ethernet, Compact Flash, TV-out, & Audio	1	1	2	1	1	1		√	√
Gene 4310 Series	NS Geode Series SubCompact Board with LCD, LVDS, Ethernet, TV-out & Audio	1	1	1	1	1	1	√	√	√

Full-size CPU Cards

	Description	Accessories							
		Cable						Drivers	
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	LVDS cable	VGA	Ethernet
SBC-776	FC/Socket 370 Full-size CPU Card with LCD, Dual Ethernet, Audio, SCSI, & 4 USB Ports	1	1	1	1	1		√	√
SBC-676	FC/Socket 370 Full-size CPU Card with LCD, Panel Link, Dual Ethernet, AGP 2X, High Drive, SSD & 2 USB ports	1	1	1	1	1		√	√
SBC-675B	FC/Socket 370 Full-size CPU Card with LCD, High Drive, & SSD	1	1	1	1	1		√	
SBC-675	Socket 370 Full-size CPU Card with LCD, Ethernet, High Drive, & SSD	1	1	1	1	1		√	√
SBC-598	Socket 370 Full-size CPU Card with VGA, High Drive, & SSD	1	1	1	1	1		√	
SBC-597	Super 7 Full-size CPU card with LCD, Ethernet, High Drive, & SSD	1	1	1	1	1		√	√

Half-size CPU Cards

	Description	Accessories						
		Cable					Drivers	
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	VGA	Ethernet
SBC-659	FC/Socket 370 Half-size CPU Card with LCD, Dual Ethernet, Audio, AGP2X, Compact Flash, DVI/DVO interface, & 4 USB Ports	1	1	1	1	1	√	√
SBC-658	FC/Socket 370 Half-size CPU Card with LCD, Ethernet, & SSD	1	1	1	1	1	√	√
SBC-656	FC/Socket 370 Half-size CPU Card with LCD, Ethernet, & SSD	1	1	1	1	1	√	√
SBC-558	Intel Tillamook MMX Half-size CPU Card with LCD, Ethernet, & SSD, & PC/104 Plus	1	1	1	1	1	√	√
SBC-557	Super 7 Half-size CPU Card with LCD, Ethernet, & SSD	1	1	1	1	1	√	√
SBC-556	Socket 7 Half-size CPU Card with LCD, Ethernet, & SSD	1	1	1	1	1	√	√
SBC-556L	Socket 7 Half-size CPU Card with LCD, & SSD	1	1	1	1	1	√	
SBC-456/E	486DX5-133 Half-size CPU Card with LCD, Ethernet, & SSD	1	1	1	1	1	√	456E only
SBC-411/E	486DX5-133 Half-size CPU Card with Ethernet, & SSD	1	1	K/B only	2	1		411E only
SBC-357/4M	386 Half-size CPU Card with LCD, SSD, 4 COMS, & 4 MB EDO DRAM onboard	1	1	1	3	1	√	

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Ordering Information

PC / 104 Module

	Description	Accessories							
		Cable					Drivers		
		IDE	FDD	K/B+PS/2 mouse Mini-Din	Serial Port	Parallel Port	VGA	Ethernet	Audio
PCM-4335	STPC Client DX-66 PC/104 CPU Module with LCD & SSD	1	1	1	2	1	√		
PCM-3335	386SX-40 PC/104 CPU Module with LCD & SSD	1	1	1	2	1	√		

Note: The PCM-4335 includes CPU fan

PC / 104 Module Peripherals

	Description
PCM-3116	PC/104 PCMCIA/CompctFlash (ATA) to IDE Module
PCM-3116PC	PC/104 PCMCIA (ATA) to IDE Module
PCM-3116CF	PC/104 CompactFlash (ATA) to IDE Module
PCM-3116PC/F	PCMCIA (ATA) to IDE Drive 3.5" FDD Form Factor
PCM-3116PC/R	PCMCIA (ATA) to IDE Card
PCM-3115B	PCMCIA Module (two-slot)
PCM-5600	PC/104 56K Fax/Modem Module
PCM-3610	PC/104 Isolated RS-232/422/485 Module
PCM-3640	PC/104 4-port RS-232 Module
PCM-3660	PC/104 Ethernet Module
PCM-3718H	12-bit DAS module with programmable gain
PCM-3724	48-channel DIO Module
PCM-3840	DiskOnChip 2000 Flash Disk Module
PCM-P50	PC/104 Vehicle Power Supply Module (+5V, +12V)
PCM-P50N	PC/104 Vehicle Power Supply Module (+5V, +12V, -5V, -12V)
PCM-3430	PC/104 Ultra wide SCSI
PCM-3730	PC/104 Plus with 3 Ethernet controllers

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Ordering Information

Peripherals

	Description
DiskOnChip - X	M-System DiskOnChip®2000 (X: Flash memory capacity)
DiskOnChip Millennium	M-System DiskOnChip®Millennium 8 MB
PCM-3524-3	LVDS Transmitter/Receiver Module (3.3V)
PCM-3524-5	LVDS Transmitter/Receiver Module (5V)
PCM-3526	Rear Panel Adapter
PCM-3534	DVI/DVO TTL Module for PCM-6896/SBC-659
PCM-3534P	DVI/DVO Panel Link Module for PCM-6896/SBC-659
PCM-3535	DVI/DVO LVDS Module for PCM-6896/SBC-659
PCM-3536	DVI/DVO TTL Module for PCM-6898

COM Port Cable

Part No.	Cable Description	Suitable Model																		
		Gene		SBC														MB	PCM	
		5310	4310	776	675/B	658	659	598	597	656B	656	558	557	556	456/E	411/E	357/4M	562	4335	3335
1701010300	Flat Cable 30cm 2S/1P D-SUB 14-9-9 26-25													1	1		1	1	1	
1701010302	Flat Cable 1S/1P D-SUB W/bracket 26-25 10-9 2.0 mm		1			1	1			1	1	1	1							
1701100300	Flat Cable 10P 30cm Gray D-SUB (9P-10P)																2		1	
1701100302	Flat Cable 10P-9P 30cm Gray D-SUB (Pin-to-Pin)	1		1																2
1701260301	Flat Cable 26P 30cm Gray 26-25 D-SUB W/O BRACKET																		1	1
1701260302	Flat Cable 30cm 1S/1P Adaptor 10-9 26-25 D-SUB				1				1											
1701260303	Flat Cable 30cm 1S/1P Adaptor for SBC series							1								1				
1701260307	Flat Cable. 1 S/1 P.D-SUB W/BRACKET 26-25 10-9 2P																			

USB Selection Guide

Part No.	Cable Description	Suitable Model																			
		PCM							Gene		SBC										
		6898	6896	6890B	6890	5896	4896	4896L	5310	4310	776	675/B	676	598	597	658	659	656	558	557	556
1709100200	USB cable 5pin*2 20cm Normal W/Bracket					B1.1	A1.2 B1.0					√		√							√
1709100201	USB cable 5pin*2 20cm 2.0mm W/Bracket	√	√	√	A1.2	B1.2	B1.2		√	√	√		√			√	√	√	√	√	
1709080200	USB cable 4pin*2 20cm Special W/Bracket					Rev. B1.1	Rev. B1.0	Rev. B1.0													
1709080201	USB cable 4pin*2 20cm Reversed W/Bracket			√			√														
1709100202	USB cable 5pin*2 20cm Reversed W/Bracket														√						
1709080202	USB cable 4pin*2 20cm special W/Bracket				A1.1 A1.2	A1.1	A1.1														

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Note: All trademarks are properties of their respective owners.

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Ordering Information

Cooling Fan Selection Guide

Part No.	Description	Suitable Model																	Remark
		PCM						SBC									MB		
		6890	5896	4896	4894	4898	4897	675	598	597	656B	656	557	556	456/E	411/E	662	562	
1759200203	CPU cooling fan for 486 CPU onboard SQFP				√										√	√			One ball bearing
1759200305	CPU cooling fan for ZIF Socket 7 and Socket 370 CPUs, 3-pin 12V	√	√	√		√	√	√		√	√	√	√				√		FAN-0601-02 (one ball bearing)
1759200306																			FAN-0601-03 (two ball bearings)
1759200307	CPU cooling fan for ZIF Socket 7 and Socket 370 CPUs, HDD-type 5V	√	√	√		√	√	√	√	√	√	√					√	√	FAN-0601-04 (one ball bearing)
1759200308																			FAN-0601-05 (two ball bearings)
1759200110	CPU Cooler Fan + Heat sink for Pentium PGA 12V													√					
1759200309	CPU cooling fan for Intel Pentium II/III Slot 1 CPUs, 3-pin 12V																		FAN-0301-02 (one ball bearing)
1759200310																			FAN-0301-03 (two ball bearings)
1759200311	Low-profile cooling fan for ZIF Socket 7 and FC/Socket 370 CPUs, 3-pin 12V	√	√	√		√	√	√	√	√	√	√					√		FAN-0611-01 (one ball bearing)
1759200312																			FAN-0611-02 (two ball bearings)
1759200313	Low-profile cooling fan for ZIF Socket 7 and FC/Socket 370 CPUs, HDD-type 5V	√	√	√		√	√	√	√	√	√	√					√	√	FAN-0611-03 (one ball bearing)
1759200314																			FAN-0611-04 (two ball bearings)

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