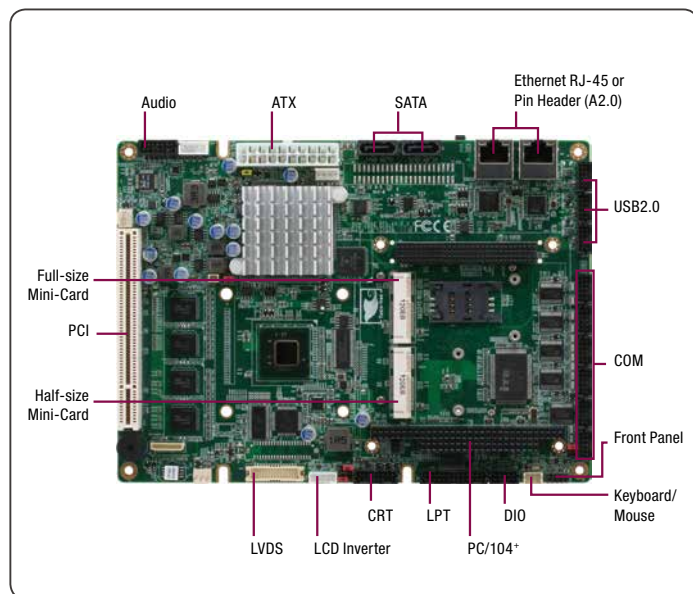


01 PCM-LN02

Compact Boards

Compact Board with Onboard Intel® Atom™ N455/D525 Processor



Features

- Intel® Atom™ N455/D525 Processor
- Intel® ICH8M
- Onboard DDR3 667/800MHz, up to 2 GB
- 10/100/1000Base-TX Ethernet x 2, RJ-45 x 2
- Integrated Graphic Supports 18-bit or 24-bit LVDS Panel or TTL (Optional)
- Speaker Out with 2W Amplifier (Wafer Box)
- SATA 3.0 Gb/s x 2, CompactFlash™ x 1, EIDE x 1 (Optional)
- USB2.0 x 6, RS-232 x 5, RS-232/422/485 x 1
- PC/104+ (ISA+PCI), Mini-Card x 2 (1st: Full Size + SIM; 2nd: Half-size)
- +12V Only Operation with Optional ATX
- Optional TPM1.2

Specifications

System	
Form Factor	5.25" Compact Board
CPU	Onboard Intel® Atom™ N455/D525
CPU Frequency	Up to 1.83GHz
Chipset	PineView™ D/M DDR3 + ICH8M
Memory Type	Onboard 2 GB / 4 GB DDR3 667/800
Max. Memory Capacity	4 GB
BIOS	AMI 8MB
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V & ATX co-lay
Power Supply Type	ATX/ DC-12V
Power Consumption (Typical)	—
Dimension (L x W)	8" x 5.75" (203mm x 146mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Certification	CE/FCC
Display	
VGA/LCD Controller	Integrated
Video Output	CRT, TTL (Optional), or LVDS 18/24 bit
Backlight Inverter Supply	Max. 12V
I/O	
Ethernet	Intel® 82567V x 1, Intel® 82583V x 1, 10/100/1000Base-TX x 2
Audio	ALC888-GR, 2 CH
USB Port	USB2.0 x 6
Serial Port	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1
HDD Interface	UDMA33 x 1, SATA 2 x 2
FDD Interface	—
SSD	CompactFlash™
Expansion Slot	PCMCIA x 1, PC-104-Plus Two mini-card (1st: full size+SIM; 2nd: half size) on the top side; CF x 1 LAN connector Pin header Type
PWM LCD Support	—
DIO	8 bit
TPM	Optional
Touch	—



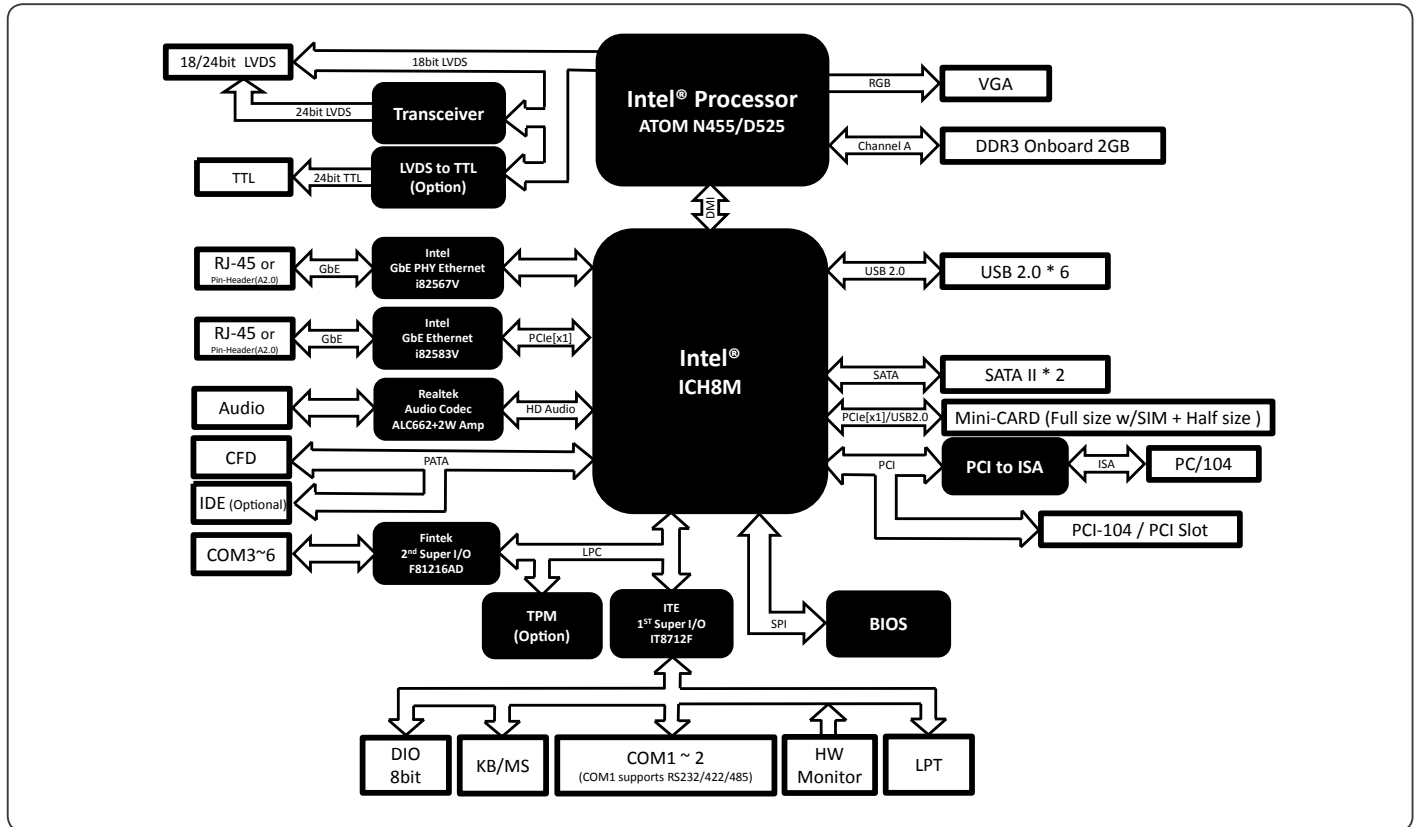
Packing List

- 965766600
Jumper Cap
- 17592LN8T0
Cooler
- Product CD
- PCM-LN02

Optional Accessories

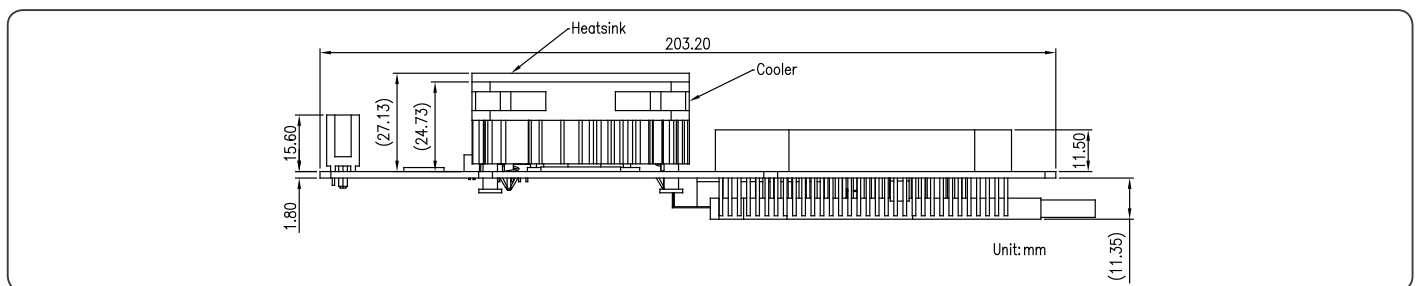
- 1709100208
USB Cable, Length 20cm
- 1700140510
Audio Cable, Length 51cm
- 1701100206
COM Port Cable, Length 20cm
- 1701260200
Parallel Port Cable, Length 20cm
- 1709070500
SATA Cable, Length 50cm
- 1700160201
VGA Cable, Length 20cm
- 1702151200
Onboard SATA Power Cable
- 1700100201
LAN Cable 20cm for A20

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
TF-PCM-LN02-A10-02	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	18b, 1CH	SATA x 2 CF x 1	GbE x 2	UBS2.0 x 4	3	1	Mini-Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-03	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	18b, 1CH	SATA x 2 CF x 1	GbE x 2	UBS2.0 x 4	3	1	Mini-Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-04	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2	UBS2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-05	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2	UBS2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A20-02	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2 Pin Header x 2	UBS2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A20-03	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2 Pin Header x 2	UBS2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2