

Product Certification Report

Report No: SBC-659P-T-02

Product Model	SBC659P
Product description	FC / Socket 370 Half-Size CPU Card with LCD, Dual Ethernet , Audio , AGP 2X ,Compact Flash , & 4 USB Ports
Test reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : SBC-659P Rev.A0.3 <input checked="" type="checkbox"/> BIOS: SBC-659 BIOS Rev 0.8 + PCM-3536 for LAN receive (09/14/2001) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2001-10-19
 Issue date

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Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Operating at 0 ~60 for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .(Operating at 0 & 60 for 2hours)	Pass
LAN Chipset Burn_In Test. (Operating at 0 and 60 for 2hours)	Pass
Boot_Up Burn_In Test .(Operating at 0 ~60 for 24hours)	Pass
Boot_Up Burn_In Test .(Operating at Room Temperature for 24hours)	Pass
Windows HCT 9.1 system stress test. (Operating at Room Temp. for 8hours)	Pass
Timer Accuracy Test	Result
RTC timer accuracy of +/-3 sec per day.	Pass
System clock accuracy of +/-5 sec per day.	Pass
Watchdog timer accuracy of +/-1 sec per minute.	Pass
Margin Test – Power Consumption – PIII 1G , SDRAM 256MB	Result
Power VCC 4.75V to 5.25V Margin test .	Pass
Electrical characteristics – Normal Mode(+3.3V)	0.27A
Electrical characteristics -- Standby Mode(+3.3V)	0.27A
Electrical characteristics – Normal Mode(+5V)	7.59A
Electrical characteristics -- Standby Mode(+5V)	3.15A
Electrical characteristics – Normal Mode(+12V)	0.24A
Electrical characteristics -- Standby Mode(+12V)	0.24A
BIOS Function Test	Result
Y2K Test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
ACPI Power manager test	Pass
Power On Function test	Pass
CMOS backup Test	Pass
Boot ROM Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass
Operation System Compatible Test	Result
Linux Red Hat 7.0	Pass
Netware 4.11	Pass
Netware 5.0	Pass
Windows 95 English version	Pass
Windows 98SE English version	Pass
Windows ME English version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass

Windows 2000 professional English version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Windows NT 4.0 Hardware Compatibility Test (HCT)	Pass
Performance Test – CPU Pentium III 1G , DRAM 128MB	Result
LandMark Speed 2.0 – CPU	6294.43
LandMark Speed 2.0 – FPU	20910.00
LandMark Speed 2.0 – VIDEO	12136.00
WinStone 99 V1.1 – High_end winstone99	58.3
WinBench 99 V1.1- High_end Graphic winmark99	870
WinBench 99 V1.1- Business Graphic winmark99	223
WinBench 99 V1.1- FPU winmark	5320
WinBench 99 V1.1- CPU mark99	84.4
Final Reality V1.01 BenchMark Test – 2D image	7.30
Final Reality V1.01 BenchMark Test – 3D	5.88
Final Reality V1.01 BenchMark Test – Bus transfer	8.44
Final Reality V1.01 BenchMark Test – Overall	6.69
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	1.89
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	32.4
Utility and Driver Test	Result
VGA for Windows 95 (OnBoard Intel 82815E Pro Savage)	Pass
VGA for Windows 98SE (OnBoard Intel 82815E Pro Savage)	Pass
VGA for Windows ME (OnBoard Intel 82815E Pro Savage)	Pass
VGA for Windows 2000P (OnBoard Intel 82815E Pro Savage)	Pass
VGA for Windows NT 4.0 (OnBoard Intel 82815E Pro Savage)	Pass
LAN for Windows 95 (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows 98SE (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows ME (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows 2000P (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows NT 4.0 (OnBoard Intel GD82559 & Intel GD82559)	Pass
Sound for Windows 95 (ALC200/ ADVANCE AC ' 97)	Pass
Sound for Windows 98SE (ALC200/ ADVANCE AC ' 97)	Pass
Sound for Windows ME (ALC200/ ADVANCE AC ' 97)	Pass
Sound for Windows NT 4.0 (ALC200/ ADVANCE AC ' 97)	Pass
Sound for Windows 2000P (ALC200/ ADVANCE AC ' 97)	Pass
Red hat Linux 7.0 hardware compatible list for VGA	Support
Red hat Linux 7.0 hardware compatible list for LAN	Support
Memory Test – SDRAM PC-133/100	Result
Infineon HYB39S128800CT-75 / PC133 / 128MB	Pass
NEC D45128163G5-A75-9JF / PC133 / 64MB	Pass
TOSHIBA TC59SM716FT-80 / PC100 / 128MB	Pass
HITACHI 5225165BTT75 / PC133 / 256MB	Pass
HITACHI HB52RF648DC-75B / 512MB	Pass

CPU Compatible Test	Result
Pentium III 1G (133 FSB)	Pass
Pentium III 850 (100 FSB)	Pass
Pentium III 750 (100 FSB)	Pass
Celeron 800 (100 FSB)	Pass
Celeron 766 (66 FSB)	Pass
Celeron 633 (66 FSB)	Pass
Celeron 533 (66 FSB) (.25u)	Note ¹
HDD Compatible Test	Result
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM DTLA-307045 / 46.1GB / ATA100	Pass
Maxtor 54098U8 / 40.9GB / ATA66	Pass
Seagate ST315320A / 15.3GB / ATA66	Pass
Quantum QMP30000AS-A / 30GB / ATA66	Pass
Quantum K13600AT / 13GB / ATA66	Pass
Quantum LM20500AT / 20.5GB / ATA-66	Pass
CDROM / DVDROM Test	Result
NEC C&C-BCD F561B / 52X	Pass
ASUS CD-S500/A / 50X	Pass
TEAC CD-540E / 40X	Pass
SONY CDU4811-81 / 48X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
MITSUMI CRMC-FX4824T / 48X	Pass
AFREEY CD-2050E / 50X	Pass
RICOH MP7060S / 24X / SCSI-CDROM	Pass
Network HUB / LAN Function Test	Result
HP J4095A 24Ports [100 /10 Mbps]	Pass
D-Link DES-1008 [100 / 10 Mbps]	Pass
Intel Inbusiness 8 Ports [100 / 10 Mbps]	Pass
LEMEL LM-S5 5 Ports [100 / 10 Mbps]	Pass
Accton DeskTop-3005 [100 / 10 Mbps]	Pass
SVEC FD916H [10M Mbps]	Pass
On Board Audio Function Test	Result
System Sound	Pass
Play CD_IN	Pass
Play Sound Recorder	Pass
Line Out	Pass
Line In	Pass
Line In Sound Recorder	Pass
MIC Speaker – Dynamic / Condenser	Pass

MIC Speaker Recorder – Dynamic / Condenser	Pass
LCD Monitor	Result
Samsung / LTM150XS-T01 / TFT / 15"	Pass
SCSI Card Compatible Test	Result
AHA-2940UW (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
VGA Card Compatible Test	Result
3D Blaster Savage 4 (PCI bus)	Pass
LEMEL S3 TRIO64V2-DX/GX (ISA bus)	Pass
LAN Card Compatible Test	Result
Intel SB82559 (10/100MB) (PCI bus)	Pass
Intel PILA8560 (10/100MB) (PCI bus)	Pass
Modem Card Compatible Test	Result
Genuine GM56-AMI2019 (PCI bus)	Pass
Multi Media Card Compatible Test	Result
Creative CT4170 (ISA bus)	Pass
Creative SB16 PNP/CT2980 (ISA bus)	Pass
Lemel ESS ES1868F 3D/16 PnP (ISA bus)	Pass
Industry Control Adapter Card Compatible Test-PC104/PC104Plus	Result
AAEON PCM-3600 / Fax/Modem Module	Pass
AAEON PCM-3420 / Fast SCSI-2 Module	Pass
AAEON PCM-3660 / RTL9019LAN Module	Pass
AAEON PCM-3110 / PCMCIA Module	Pass
AAEON PCM-3115B / PCMICA Module	Pass
AAEON PCM-3640 / RS-232 Module	Pass
AAEON PCM-3730 / Intel 82559 LAN Module / PC104 Plus	Pass
AAEON PCM-3430 / SCSI Module / PC104 Plus	Pass
System Integer Application Test	Result
PCI cards integer application	Pass
ISA cards integer application	Pass
PCI and ISA cards integer application	Pass
Riser Card integer application	Pass
Function Test	Result
On board LAN with 100 feet cable length	Pass
On board VGA function	Pass
Peripheral Storage Device Compatible test	Result
IOMEGA ZIP100M (Parallel Type)	Pass
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
Photo Smart P1000 Printer (LPT Type)	Pass
33.6 HIGH SPEED MODEM (RS-232)	Pass
Peripheral Input Device Compatible test	Result

BTC 7932 Keyboard (USB)	Pass
Logitech M-BB48 Mouse (USB)	Pass
HP SJ4200C Scanner (USB)	Pass
HP Photo Smart P1000 Printer (USB)	Pass
Tekcam P35U Camera (USB)	Pass
IOMEGA ZIP100MB (USB)	Pass
D-Link DU-E10 Ethernet Adapter (USB)	Pass
D-Link DSB-H4/DU-H4 HUB (USB)	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man	Pass
Adam RS-485 (COM2)	Pass
Miscellaneous Test	Result
Windows 98 Power manager test	Pass
Windows 2000 Power manager test	Pass
Floppy Disk Controller	Pass
H/W Reset	Pass
On board buzzer	Pass
HDD LED	Pass
Ext. KB connector	Pass
ATX power button	Pass
CPU FAN connector	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
USB Port1	Pass
USB Port 2	Pass
SIR / 115K bps	Pass
Compact flash solid state disk / TYPE1 /TYPEII	Pass