

# Product Certification Report

Report No: X-900-P-01

Product Model	<b>X-900</b>
Product description	<b>FC/ Socket 370, LPX-like with LCD, Ethernet, Audio, SSD, 4 USB Ports, &amp; 4 COM Ports</b>
Test reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : X-900 Rev:A0.1 <input checked="" type="checkbox"/> BIOS: X-900 BIOS Rev:1.0(10) (07/20/2001)  <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:

2001-07-31  
 Issue date

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Test result for certification

<b>Stability Test - Dynamic / Boot_UP Burn_In Test</b>	<b>Result</b>
Dynamic Burn-In test. ( Operating at 0°C~60°C for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .( Operating at 0°C & 60°C for 2hours)	Pass
LAN Chipset Burn_In Test. ( Operating at 0°C and 60°C for 2hours)	Pass
Boot_Up Burn_In Test .( Operating at 0°C~60°C 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
<b>Timer Accuracy Test</b>	<b>Result</b>
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
<b>Margin Test – Power Consumption – PIII 1G , SDRAM 256MB</b>	<b>Result</b>
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Connector Test – ATX Power Chang To AT Power	Pass
Electrical characteristics – Normal Mode( +3.3V)	0.08A
Electrical characteristics -- Standby Mode(+3.3V)	0.09A
Electrical characteristics – Normal Mode( +5V)	7.2A
Electrical characteristics -- Standby Mode(+5V)	3.12A
Electrical characteristics – Normal Mode( +12V)	0.26A
Electrical characteristics -- Standby Mode(+12V)	0.15A
<b>BIOS Function Test</b>	<b>Result</b>
Y2K Test	Pass
Standard CMOS Setup Test	Fail <sup>1</sup>
Boot Sequence Test	Pass
APM Power manager test	Fail <sup>2</sup>
CMOS backup Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Password Test	Pass
<b>Operation System Compatible Test</b>	<b>Result</b>
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 NT server 4.0 English version	Pass
Windows 2000 professional English version	Pass ; Note <sup>1</sup>
DOS and DOS Utility Compatibility Testing	Pass
<b>Performance Test – CPU Pentium III 1G , DRAM 256MB</b>	<b>Result</b>
LandMark Speed 2.0 - CPU	6294.49
LandMark Speed 2.0 - FPU	20910
LandMark Speed 2.0 – VIDEO	12136

WinStone 99 V1.1 – High_end winstone99	42
WinStone 99 V1.1 – Business winstone99	37.3
WinBench 99 V1.1- High_end Graphic winmark99	891
WinBench 99 V1.1- Business Graphic winmark99	230
WinBench 99 V1.1- FPU winmark	5320
WinBench 99 V1.1- CPU mark99	84.6
Final Reality V1.01 BenchMark Test – 2D image	7.42
Final Reality V1.01 BenchMark Test – 3D	5.87
Final Reality V1.01 BenchMark Test – Bus transfer	8.41
Final Reality V1.01 BenchMark Test – Overall	6.72
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	1.93
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	29.7
<b>Utility and Driver Test</b>	<b>Result</b>
VGA for Windows 95 (On Board Intel (R) 82815E Graphics Controller 05-08-2001)	Pass
VGA for Windows 98SE (On Board Intel (R) 82815E Graphics Controller 12-6-2000)	Pass
VGA for Windows ME (On Board Intel (R) 82815E Graphics Controller 11-27-2001)	Pass
VGA for Windows NT 4.0 (On Board Intel (R) 82815E Graphics Controller 4.03.1381.2687,4.0.32)	Pass
VGA for Windows 2000P (On Board Intel (R) 82815E Graphics Controller 11-27-2000)	Pass
LAN for Windows 95 (On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 01-03-2001)	Pass
LAN for Windows 98SE (On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001)	Pass
LAN for Windows ME (On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 06-08-2000)	Pass
LAN for Windows NT 4.0 (On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4.00.5000)	Pass
LAN for Windows 2000P (On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 10-19-1999)	Pass
Sound for Windows 95 (On Board Avance AC'97 Audio Intel (R) Audio Controller 04-21-2000)	Pass
Sound for Windows 98SE (On Board Avance AC'97 Audio Intel (R) Audio Controller 03-29-2001)	Pass
Sound for Windows ME (On Board Avance AC'97 Audio Intel (R) Audio Controller 06-08-2000)	Pass
Sound for Windows NT 4.0 (On Board Avance AC'97 Audio Intel (R) Audio Controller 4.03.00.3004)	Pass
Sound for Windows 2000P (On Board Avance AC'97 Audio Intel (R) Audio Controller 03-27-2001)	Pass
<b>Memory Test – SDRAM PC-133/100</b>	<b>Result</b>
NYNYA NT56V6620C0T-75/ PC133/ 64MB	Pass
NEC D45128841G5-A75-9JF/ PC133/ 256MB	Pass
NEC D4564163G5-A10B-9JF/ PC100/ 64MB	Pass
HYUNDAI HY57V1291620LTC-10S/ PC100/ 64MB	Pass

NEC D4564841G5-A80-9JF/ PC100/ 128MB	Pass
INFINEON HYB39564800CT-75/ PC133/ 128MB	Pass
HITACHI 5264805DTTA60/ PC100/ 64MB	Pass
NEC D4516821AG5-A10-9NF/ PC100/ 32MB	Pass
APACER AM2V168A1T8/ PC100/ 32MB	Pass
HYUNDAI HY57V65802/ PC100/ 128MB	Pass
<b>CPU Compatible Test</b>	<b>Result</b>
Pentium III 1G (133 FSB)	Pass
Pentium III 933 (133 FSB)	Pass
Pentium III 850 (100 FSB)	Pass
Celeron 800 (100 FSB)	Pass
Celeron 766 (66 FSB)	Pass
Celeron 633 (66 FSB)	Pass
Celeron 533 (66 FSB) (.25u)	Pass
<b>HDD Compatible Test</b>	<b>Result</b>
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM DTLA-307045 / 46.1GB / ATA100	Pass
Maxtor 51536U3 / 15.3GB / ATA66	Pass
Seagate ST34520A / 4.5GB / ATA33	Pass
Quantum Fireball / 20.4GB / ATA66	Pass
Quantum Fireball / 30GB / ATA100	Pass
Fujitsu MPC3043A / 4.3GB / ATA33	Pass
IBM DNES-309170 / 9GB / SCSI	Pass
Seagate ST32155W / 2.15GB / SCSI	Pass
<b>CDROM / DVDROM Test</b>	<b>Result</b>
NEC BCD F541B / 50X	Pass
ASUS CD-S500/A / 50X	Pass
TEAC CD-540E / 40X	Pass
CREATIVE CD5220E / 52X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
AFREEY CD-2050E / 50X	Pass
RICOH MP7060S / 24X / SCSI-CDROM	Pass
<b>On Board Audio Function Test</b>	<b>Result</b>
System Sound	Pass
Play Sound Recorder	Pass
Line Out	Pass
Line In	Pass
<b>SCSI Card Compatible Test</b>	<b>Result</b>
AHA-2940UW (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
<b>VGA Card Compatible Test</b>	<b>Result</b>
3D Blaster Savage 4 (PCI bus)	Pass

LEMEL S3 TRIO64V2-DX/GX (PCI bus)	Pass
S3 VISION968 (PCI bus)	Pass
<b>LAN Card Compatible Test</b>	<b>Result</b>
D-Link DFE540TX (PCI bus)	Pass
D-Link DFE500TX (PCI bus)	Pass
RTL-8139B (10/100MB) (PCI bus)	Pass
Intel PILA8560 (10/100MB) (ISA bus)	Pass
3Com 3C905C-TXM (10/100MB) (PCI bus)	Pass
<b>Modem Card Compatible Test</b>	<b>Result</b>
GVC F2000 56K/V.90 DATA/FAX/MODEM (PCI bus)	Pass
Genuine GM56-AMI2019 (PCI bus)	Pass
<b>Multi Media Card Compatible Test</b>	<b>Result</b>
Creative AUDIO (PCI bus)	Fail <sup>3</sup>
Creative CT4170 (ISA bus)	Fail <sup>3</sup>
Creative SB16 PNP/CT2980 (ISA bus)	Fail <sup>3</sup>
Lemel ESS ES1868F 3D/16 PnP (ISA bus)	Fail <sup>3</sup>
<b>RAID Adapter Card Test</b>	<b>Result</b>
ABIT HotRod 100 Pro (PCI bus)	Pass
PROMISE Ultra 100 (PCI bus)	Pass
<b>System Integer Application Test</b>	<b>Result</b>
Riser Card integer application	Pass
<b>Function Test</b>	<b>Result</b>
On board LAN with 100 feet cable length	Pass
On board VGA function	Pass
M-System DOC-2000 Solid State Disk test	Pass
<b>Peripheral Storage Device Compatible test</b>	<b>Result</b>
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
FUJITSU MO MCB3064SS	Pass
<b>Peripheral Input Device Compatible test</b>	<b>Result</b>
ACK-298 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

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
LAN LED	Pass
Watchdog – reset	Pass
Disable watchdog	Pass
CPU FAN connector	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM1	Pass
COM2	Pass
COM3	Pass
COM4	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
USB Port 1	Pass
USB Port 2	Pass
DOC	Pass ; Note <sup>2</sup>

Summary Of Result	
<b>Fail</b> <sup>1</sup>	Floppy Disk B's function is fail
<b>Fail</b> <sup>2</sup>	Suspend mode always delay 15-58sec
<b>Fail</b> <sup>3</sup>	These Audio Card can be install, but no any function output
<b>Note</b> <sup>1</sup>	Can not shutdown under the environment of Windows 2000P
<b>Note</b> <sup>2</sup>	DOC can not be use under Windows 2000P