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Workstation / IPC Product Certification Report

Release No : 03P010293

Product Model	AMB-2450 Ver.A
Product Description	15" Modular System Industrial Workstation with 10-slot backplane
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : SBC-860 Rev A1.0 <input checked="" type="checkbox"/> BIOS: SBC-860-10 BIOS Rev1.0(01/16/2003) <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:

2003-12-16

WENYUAN

Andrew Ku

Issue date

Manager

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C ~60°C for 48hours)	Pass
Dynamic Burn-In test. (Coldstaart 50 Times 8 hours)	Pass
Dynamic Burn-In test. (Hi Temp.Storage Test 48hours.)	Pass
Dynamic Burn-In test. (Low Temp Storage Test 48hours.)	Pass
Dynamic Burn-In test. (Humidity Test 48 hors.)	Pass
Dynamic Burn-In test. (H/W Reset / K/B Reset 20 Times)	Pass
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Pass
RTC timer accuracy of +/-3 sec per day.	Pass
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
LAN1 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
LAN2 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN2 D-Link DES-1008 [100 / 10 Mbps]	Pass
LAN2 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
CPU Compatible Test	Result
Pentium IV 2.0G	Pass
Pentium IV 3.06G	Pass
Memory Test – SDRAM PC-133/100	Result
KINGMAX / KDL388P4EA-60 / 256MB / DDR333	Pass
Riser Card Test	Result
Maxtor G450 / VC-200203 (VGA Card) (PCI)	Pass
D-Link DFE-550TX Fast Ethernet Adapter / NW-2003001(Lan Card) (PCI)	Pass
Intel SB82559 10/100Mbps / NW-013 (Lan Card) (PCI SLOT)	Pass
Creative Sound Blaster Live5.1 / SC-200200 (Sound Card) (PCI)	Pass
Takram DC-395U V1.02 / 22-200200 (SCSI Card) (PCI)	Pass
APTEC/ASC-29160 / SS-200201 (SCSI Card) (PCI)	Pass
Genuine GM56-AMI2019 / MD-007 (Modem Card) (PCI)	Pass
AHA-1520B / SS-002 (SCSI Card) (ISA)	Pass
Intel PILA8560 10/100 Mbps / NW-006 (Lan Card) (ISA)	Pass
D-LINK DWL-500 + DWL-1000AP Wireless Adapter(ISA)	Pass
Full Loading Test	Result
Maxtor G450 / VC-200203 (VGA Card) (PCI)	Pass
D-Link DFE-550TX Fast Ethernet Adapter / NW-2003001(Lan Card) (PCI)	Pass
Intel PILA8560 10/100 Mbps / NW-006 (Lan Card) (ISA)	Pass
AHA-1520B / SS-002 (SCSI Card) (ISA)	Pass

I/O Peripheral Test	Result
FDD Driver A: /B:	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
Secondary IDE Master	Pass
Secondary IDE Slave	Pass
PS/2 MOUSE	Pass
H/W Reset	Pass
Buzzer	Pass
Keyboard Lock	Pass
HDD LED	Pass
Power LED	Pass
Ext. K/B Connector	Pass
ATX Power button	Pass
CPU FAN Connector	Pass
LAN LED / Function	Pass
Modular System Industrial Workstatuon Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
CD-ROM & Floppy drive included	Pass
Lockable front-panel door	Pass
Finger mouse	Pass
PS/2 keyboard connector	Pass
59 Data-entry&20/24 function keys	Pass
Digital brightness controller	Pass
OSD Function Test	Pass
Remote LCD Function Test	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
Supervisor / User Password Test	Pass
Hardware Monitor Test	Pass
Performance Test – CPU Pentium IV 2.0G DRAM 128MB	Result
LandMark Speed 2.0 – CPU	66306.00
LandMark Speed 2.0 – FPU	11592.20
LandMark Speed 2.0 – VIDEO	17873.00
WinBench 99 V1.1- CPU mark99	123
WinBench 99 V1.1- FPU winmark	6990
WinBench 99 V1.1- Business Graphic winmark99	296
WinBench 99 V1.1- High_end Graphic winmark99	1060
Final Reality V1.01 BenchMark Test – 2D image	21.97

Final Reality V1.01 BenchMark Test – 3D	8.74
Final Reality V1.01 BenchMark Test – Bus transfer	29.30
Final Reality V1.01 BenchMark Test – Overall	15.80
High End WinStone 99	49.3
Business WinStone 99	42.5
Operation System Compatible Test	Result
Windows 98SE English / Chinese version : 4.10.2222A	Pass
Windows 2000 professional English version : 5.00.2195	Pass
Windows XP Professional English Version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
VGA for Windows 98SE (Intel [R]82845 Graphics Controller Ver.4.13.01.3317)	Pass
VGA for Windows 2000P (Intel [R]82845 Graphics Controller Ver.6.13.3317)	Pass
VGA for Windows XP (Intel [R]82845 Graphics Controller Ver.6.13.1.3317)	Pass
LAN for Windows 98SE (Intel[R]82540EM Based Network Connection Ver.6.2.21.0)	Pass
LAN for Windows 98SE (Intel[R]PRO/100VE Network Connection Ver.6.01.03.0000)	Pass
LAN for Windows 2000P (Intel[R]82540EM Based Network Connection Ver.6.2.21.0))	Pass
LAN for Windows 2000P (Intel[R]PRO/100VE Network Connection Ver.6.1.3.0)	Pass
LAN for Windows XP (Inter[R] 82540EM Based Network Connection / Driver Ver.6.2.21.0)	Pass
LAN for Windows XP (Inter[R]PRO/100VE Network Connection /Driver Ver.6.01.03.0000)	Pass

Workstation / IPC Product Certification Report

Release No : 03P010247

Product Model	AMB-2450 Ver.A
Product Description	15" Modular System Industrial Workstation with 10-slot backplane
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : SBC-780 Rev A1.0 <input checked="" type="checkbox"/> BIOS: SBC-780 FOR AMB-655 BIOS Rev.1.0(07/21/2003) <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:

2003-09-29

Wayne Chen

Andrew ku

Issue date

A.V.P

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0 ~60 for 48hours)	Pass
Dynamic Burn-In test. (Cold start Test Operating at 0)	Pass
Dynamic Burn-In test. (H/W Reset 20 Time Operating at Room Temp.) 110V	Pass
Dynamic Burn-In test. (HB Reset 20 Time Operating at Room Temp.) 110V	Pass
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Pass
RTC timer accuracy of +/-3 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 D-Link DES-1008T [1000 Mbps]	Pass
LAN2 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN2 D-Link DES-1008T [1000 Mbps]	Pass
CPU Compatible Test	Result
Pentium III 1.4G (133 FSB)	Pass
Pentium III 1G (133 FSB)	Pass
Pentium III 1G (100 FSB)	Pass
Memory Test – SDRAM PC-133/100	Result
Infineon / HYB39S64800CT-75 / PC133 / 128MB	Pass
NANYA / NT56V6620C0T-75 / PC-133 / 64MB	Pass
NEC / D45128841G5-A75-95F / PC-133 / 256MB	Pass
KINGSTON / Winbond 202DB W982508BH-75 / 512MB	Pass
SEITEC / PM72V56841CT6 / PC-133 / 512MB	Pass
Riser Card Test	Result
AAEON /MBC-V100 (VGA Card)	Pass
PixelView Play TV (Capture Card)	Pass
Intel Pro/1000MT Desktop (GigaLan Card)	Pass
D-Link Wireless Network DWL-520+ (Wireless Lan Card)	Pass
Creative Sound Blaster Live5.1 (Sound Card)	Pass
Takram DC-395U V1.02 (SCSI Card)	Pass
Mpeg Card YUAN DVD (Mpeg Card)	Pass
Genuine GM56-AMI2019 (Modem Card)	Pass
Adapter ASC-29160/CN KIT (SCSI Card)	Pass
Lemel ESS ES1868F 3d/16 PnP (Sound Card)	Pass
Adapter AHA -1520B (SCSI Card)	Pass
Intel PILA8560 10/100 Mbps (Lan Card)	Pass

I/O Peripheral Test	Result
FDD Driver A:	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
Secondary IDE Master	Pass
Secondary IDE Slave	Pass
COM 1	Pass
COM 2 -232	Pass
COM 3	Pass
COM 4	Pass
PS/2 MOUSE	Pass
LPT 1	Pass
H/W Reset	Pass
Speaker	Pass
Buzzer	Pass
Keyboard Lock	Pass
HDD LED	Pass
Power LED	Pass
ATX Power button	Pass
CPU FAN Connector	Pass
LAN LED / Function	Pass
LCD	Pass
Modular System Industrial Workstation Function Test	Result
AC power outlet / inlet	Pass
Power On / Off	Pass
CD-ROM & Floppy drive included	Pass
Lockable front-panel door	Pass
Finger mouse	Pass
PS/2 keyboard connector	Pass
On Board I / O Function Test	Result
COM Port Send-Receive Test	Pass
CheckIt 7.0 Portable Edition Test	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM 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

Performance Test – CPU Pentium III 1.4G , SDRAM 128MB	Result
LandMark Speed 2.0 – CPU	8844.82
LandMark Speed 2.0 – FPU	4182.00
LandMark Speed 2.0 – VIDEO	65536.00
WinBench 99 V1.1- CPU mark99	118
WinBench 99 V1.1- FPU winmark	7670
WinBench 99 V1.1- Business Graphic winmark99	441
WinBench 99 V1.1- High_end Graphic winmark99	1370
Final Reality V1.01 BenchMark Test – 2D image	10.84
Final Reality V1.01 BenchMark Test – 3D	5.98
Final Reality V1.01 BenchMark Test – Bus transfer	4.45
Final Reality V1.01 BenchMark Test – Overall	7.21
High End WinStone 99	2.91
Business WinStone 99	50
Operation System Compatible Test	Result
Windows 98SE English / Chinese version	Pass
Windows 2000 professional English version	Pass
Windows XP Professional Chinese version	Pass
Utility and Driver Test	Result
VGA for Windows 98SE (S3 Graphics Twister 4.13.01.0042)	Pass
VGA for Windows 2000P (S3 Graphics Twister 6.13.1030.)	Pass
VGA for Windows XP (S3 Graphics Twister 6.13.10.1031)	Pass
LAN for Windows 98SE (Realtek RTL8139DL 5.397.0823.2001)	Pass
LAN for Windows 2000P (Realtek RTL8139DL 5.397.0823.2001)	Pass
LAN for Windows XP(Realtek RTL8139DL 5.397.0823.2001)	Pass