

Product Certification Report

Release No : 05E010021

Product Model	EMB-852T
Product Description	EMB-852T.Rev.A0.3.W/600MHZ CPU.CFD.TOUCH
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : EMB-852T Rev:A0.3 <input checked="" type="checkbox"/> BIOS: EMB-852T BIOS Rev 1.0 (03/24/2005) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> On Board CPU Type: Intel Celeron(R) Processor 600 MHz <input checked="" type="checkbox"/> North Bridge : Intel/RG82852GM <input checked="" type="checkbox"/> South Bridge : Intel/FW82801DB <input checked="" type="checkbox"/> Audio Chipset : Realtek / ALC655 <input checked="" type="checkbox"/> Ethernet Chipset : : Intel / 82562EZ <input checked="" type="checkbox"/> I/O Chipset : ITE / IT8712F-A

2005-05-25

Issue date

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Manager

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Test Engineer

Test Result for Certification

Installation Operation System Compatible Test		Result
Windows XP Professional English Version / 2002		Pass
Windows 2000 Professional English Version /2.00.2195		Pass
Utility and Driver Test		Result
RedHat Linux 9.0 Hardware compatible list for VGA		Default
RedHat Linux 9.0 Hardware compatible list for LAN		Default
RedHat Linux 9.0 Hardware compatible list for Audio		Default
VGA for Windows XP (Intel® 82852/82855 GM/GME Graphics Controller / 7-1-2004 / 6.14.10.3865)		Pass
VGA for Windows 2000P (Intel® 82852/82855 GM/GME Graphics Controller / 7-1-2004 / 6.14.10.3865)		Pass
LAN for Windows XP (Intel(R) PRO/100 VE Network Connection / 6-22-2004 / 8.0.11.0)		Pass
LAN for Windows 2000P (Intel(R) PRO/100 VE Network Connection / 6-22-2004 / 8.0.11.0)		Pass
Audio for Windows XP ()		Pass
Audio for Windows 2000P (Realtek AC'97 Audio / 5.10.0.5630)		Pass
BIOS Function Test		Result
Standard CMOS Setup Test		Pass
Boot Sequence Test		Pass
APM Power Manager Test		Pass
ACPI Power Manager Test		Pass
Power On Function Test		Pass
Wake Up Event Test		Pass
CMOS Backup / Clear CMOS Test		Pass
Boot ROM Test (RPL/PXE)		Pass
Supervisor / User Password Test		Pass
Boot Display - CRT Function Test		Pass
Init Display First Function Test		Pass
Voltage Monitor Test		Pass
FAN Speed Monitor Test		Pass
Temperature Monitor Test		Pass
Swap Floppy Drive & Boot up Floppy Seek Function Test		Pass
USB Onboard Device Function Test		Pass
COM Address / IRQ Test		Pass
LPT Address / IRQ Test		Pass
BIOS Awdflash Program Test		Pass
Dynamic / Boot UP Burn In Test	Test Condition	Result
Diagnostics Software Burn-In Test.	0°C ~60°C , 48 hrs	Pass
Power On/Off Test.	0°C ~60°C , 24hrs	Pass
220V Power Function Test.	Room Temperature	Pass

Voltage Range Test – 210V Power Function Test	Room Temperature	Pass
Voltage Range Test – 100V Power Function Test	Room Temperature	Pass
Keyboard Reset Test.	20 Times , DOS Mode	Pass
Windows HCT 7.2 / 9.5 System Stress Test.		Pass
I/O Peripheral Function Test – I/O Function		Result
Floppy Connector / Driver A:		Pass
Primary IDE Master		Pass
Primary IDE Slave		Pass
Secondary IDE Master		Pass
Secondary IDE Slave		Pass
DOM (Disk On Module) - 40Pin		Pass
DOM (Disk On Module) - 44Pin		Pass
COM1		Pass
COM2		Pass
COM3		Pass
COM4		Pass
COM5		Pass
Touch(COM6)		Pass
Clear CMOS		Pass
PS/2 Mouse & Keyboard (External)		Pass
LCD Voltage 5V/3.3V Selection		Pass
LPT1 – Printer Type : EPSON Stylus C61		Pass
USB 1 & 2 Ports		Pass
USB 3 & 4 Ports		Pass
USB 2.0 :1 & 2 Ports		Pass
USB 2.0 :3 & 4 Ports		Pass
VGA Display		Pass
Compact Flash Card		Pass
DIMM Slots		Pass
Watchdog Software Control		Pass
I/O Peripheral Function Test – Front Panel & Function		Result
On Board Buzzer		Pass
CPU FAN Connector		Pass
System FAN Connector		Pass
I/O Peripheral Function Test – Power Connector & Function		Result
ATX Power Connector		Pass
I/O Peripheral Function Test – LAN Connector & Function		Result
LAN1 Speed LED		Pass
LAN1 Active LED		Pass
LAN1 10/100 Ethernet		Pass
I/O Peripheral Function Test – PCI Connector & Function		Result
PCI Slots		Pass

Power Consumption Test			Result	
Normal Mode (+5V)			2.22 A	
Suspend mode (+5V)			1.43 A	
5VSB / (ATX Power)(Power off Mode)			0.15 A	
Normal Mode (+12V)			0 A	
Suspend mode (+12V)			0 A	
Power Connector Test (110V/220V)			Result	
AT Power to ATX Connector (Play DVD)			Pass	
Timer Accuracy Test			Result	
RTC Timer Accuracy of +/-1 sec per day.			Pass	
System Clock Accuracy of +/-1 sec per day.			Pass	
Watchdog Timer Accuracy of +/-20% sec per minute.			Pass	
Network HUB/LAN Connects Test (LAN1/LAN2)			Result	
HUB	Type	Speed		
	HP J4095A 24 Ports	10/100 Mbps	Pass	
	D-Link DGS-1008T	10/100 Mbps	Pass	
	Intel Inbusiness 8 Ports	10/100 Mbps	Pass	
	LEMEL LM-S5 5 Ports	10/100 Mbps	Pass	
	Accton Desktop-3005	10/100 Mbps	Pass	
	SVEC FD916H	10 Mbps	Pass	
Touch Screen LCD for Serial Ports Test		Address	IRQ	Result
COM1		3F8	IRQ4	Pass
COM4		2E8	IRQ11	Pass
CPU Compatible Test (Windows 2000P)				
CPU Speed		FSB	Result	
Onboard Intel Celeron(R) Processor 600 MHz		100	Pass	
Memory Test		Speed	Size	Result
Kingston / D3208DL1T-6 / 0329PT01		DDR333	256MB	Pass
SAMSUNG / K4H560838C-TCB3		DDR333	512MB	Pass
PQI / PQ3D328D60335CU		DDR333	256MB	Pass
Kingston / D328DL-60		DDR266	512MB	Pass
SAMSUNG / K4H560438E-GCCC		DDR400	1024MB	Pass
SAMSUNG / K4H560838C-TCB0		DDR333	256MB	Pass
PCI Slot Function (PCI Adapter Card) Test		Type	Interface	Result
AAEON MBC-V100		VGA Card	PCI	Pass
GeForce4 MX-440-8X		VGA Card	PCI	Pass
Creative Sound BLASTER Live5.1		Sound Card	PCI	Pass
Adaptec ASC-29160		SCSI Card	PCI	Pass
Takram DC-395U V1.02		SCSI Card	PCI	Pass
D-Link FE-530TX Fast Ethernet		LAN Card	PCI	Pass
Intel SB82559 10/100 Mbps		LAN Card	PCI	Pass

D-Link DGE-530T 1000BASE-T Gigabit Ethernet	LAN Card	PCI	Pass
Genuine GM56-AM12019	Modem Card	PCI	Pass
ABIT HotRod 100 Pro	RAID Card	PCI	Pass
D-Link DU-520 USB 2.0	USB Card	PCI	Pass
Tekram TR-822 Serial ATA 150	SATA Card	PCI	Pass
HDD Compatible Test		Size	Speed
Hitachi / HDS722525VLAT80 / ATA-100	250GB	ATA-100	Pass
IBM / DTLA-307045 / ATA-100	46.1GB	ATA-100	Pass
FUJITSU / MPE 3136AH / ATA-66	13.6GB	ATA-66	Pass
Maxtor / 54610H6 / ATA-133	160GB	ATA-133	Pass
Quantum / Fireball Plug AS / ATA-100	30GB	ATA-100	Pass
Seagate / ST301021A / ATA-66	10.2GB	ATA-66	Pass
Western / WD400BB-75DEA0 / ATA-100	40GB	ATA-100	Pass
CD-ROM / DVD-ROM Test		Type	Speed
ACER DVP1640A	DVD-ROM	16X	Pass
Creative PC-DVD / 12X / DVD-ROM	DVD-ROM	12X	Pass
IBM GCR-8480B / 48X	CD-ROM	48X	Pass
PINONEER /DVD-121/ 16X	DVD-ROM	16X	Pass
PHILIPS PBC03210G / 32X10X40 / 12X DVD / CD-RW / DVD-ROM	DVD-ROM	12X	Pass
SAMSUNG / SH-W08 / DVD+R 8X/DVD-R 8X/CD-R 32X	DVD R/RW	8X8X32X	Pass
NEC / ND-2500A / +R8X-R8X	DVD R/RW	8X8X32X	Pass
USB Basic Function Test			Result
CMOS USB Function			Pass
CMOS USB Keyboard			Pass
CMOS USB Mouse			Pass
System Booting Test			Pass
USB Cable of 1.8 Meters (USB1.1)			Pass
USB Cable of 1.8 Meters (USB2.0)			Pass
Compatible Test			Pass
USB 2.0 Function Test	USB 1 & 2 Ports		Pass
	USB 3 & 4 Ports		Pass
USB Extention Device Function Test		Type	Result
BENQ 4824WI-ON2		CD-RW	Pass
PLEXTIR PX-S88TU		CD-RW	Pass
Fujitsu USB 2.0 High Speed device (2.5"MHN2100AT)		HDD	Pass
IOMEGA ZIP 100MB		ZIP	Pass
Mitsumi FL3.5D353GUE/FUE		Floppy	Pass

Floppy Disk Controller Function Test		Result
Copy and Compare File Between C: and A		Pass
Chang BIOS Floppy is NONE value		Pass
Peripheral Compatibility-Storage Device		Interface
iomega zip 100 parallel port	Parallel	Pass
iomega zip 100MB Internal ATAPI Drive	IDE	Pass
HITACHI MicroDrive 1GB	Type II	Pass
COM Port Send & Receive Test		Result
COM1 of 15 Meters		Pass
COM4 of 15 Meters		Pass
Disk On Module [DOM] Compatibility Test		Interface
DOM-064-426P Rev.A2A11	IDE 44 Pin	Pass
PQI / DiskOnModule DOM256MB	IDE 40 Pin	Pass
Wireless LAN Compatibility Test		Interface
D-Link DWL-520+ Wireless LAN	PCI	Pass
System Integer Application Test		Result
System Integer Application Test (Burn-in 8 Hrs.)		Pass
System Integer Power Consumption Test		Result
Normal Mode (+5V)		5.83 A
Normal Mode (+12V)		1.24 A
Windows 2000 + SP4 O.S.		Result
Performance Test –On Board CPU Type: Intel Celeron(R) Processor 600 MHz		
WinBench 99 V2.0-- Business Graphics WinMark 99		158
WinBench 99 V2.0 -- High-End Graphics WinMark 99		356
WinBench 99 V2.0 – Business Disk WinMark99		8660
WinBench 99 V2.0 – High End Disk WinMark99		32100
Final Reality V1.01 BenchMark Test -- 2D image (DirectX 9.0b / 1024x768x32Bits)		6.48
Final Reality V1.01 BenchMark Test -- 3D (DirectX 9.0b / 1024x768x32Bits)		3.31
Final Reality V1.01 BenchMark Test -- Bus transfer (DirectX 9.0 / 1280x1024x32Bits)		13.99
Final Reality V1.01 BenchMark Test -- Overall (DirectX 9.0b / 1024x768x32Bits)		5.86
3Dmark2001SE Pro-- 3Dmark2001SE Build 330_Benchmark (1024x768x32Bits)		1189