

Release No: 08P010014

Product Model	AEC-6520
Description	IP-65 Celeron M embedded controller
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> System : AEC-6520 <input checked="" type="checkbox"/> CPU Board : TF-GENE-8310 <input checked="" type="checkbox"/> BIOS : AEC-6520 BIOS Rev 1.0 (06/12/2008) <input checked="" type="checkbox"/> M/B Chipset : <input checked="" type="checkbox"/> North Bridge : Intel 852GM <input checked="" type="checkbox"/> South Bridge : ICH4 <input checked="" type="checkbox"/> VGA Chipset : Intel 852GM integrated VGA <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 6CH <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82562 10/100Mb Chip <input checked="" type="checkbox"/> I/O Chipset : ITE8712IX <input checked="" type="checkbox"/> Remark : AEC-6520 QE NPDP P5 External Report
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2008/08/14

Issue date

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Manager

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There are 3 test results in this document; they are described as follows:

Pass: Function worked perfectly

Fail: Function failed and must be modified in the next version

N/A: Outside of specification or no test equipment

Platform Information:

Item	Device Information
System	AEC-6520
CPU Board	TF-GENE-8310
BIOS / Version	AEC-6520 BIOS Rev 1.0 (06/12/2008)
CPU Type	Intel Celeron M373(Dothan) 1.0GHz
Memory Type	DSL DDR 333(PC2700) 512MB CL2.5
CRT	ViewSonicE653
Compact Flash	Transcend 4GB
Operating System	Fedora Core 8
	Windows XP Professional English Version V2002 Service Pack 3
Power Supply	SINPRO MPU50-105 Input:100-240V~47-63Hz 1.35A Output: 12V, 3.75A MAX

Test Result for Certification

1. OSD Control Function Test

OSD Control Function	Result			Note
	Pass	Fail	N/A	
Power Button			X	
Brightness			X	
Contrast			X	
Speaker Volume Up			X	
Speaker Volume Down			X	

2. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:			X	
Primary IDE Master			X	
Primary IDE Slave			X	
Secondary IDE Master			X	
Secondary IDE Slave			X	
Third IDE Master			X	
Third IDE Slave			X	
RAID 0 Function Test			X	
RAID 1 Function Test			X	
SATA1 / Serial ATA Connector 1			X	
SATA2 / Serial ATA Connector 2			X	
SATA3 / Serial ATA Connector 3			X	
SATA4 / Serial ATA Connector 4			X	
Compact Flash – Type I	X			
Compact Flash – Type II			X	
DOC (Disk On Chip)			X	
DOM (Disk On Module) – 40 Pin			X	
DOM (Disk On Module) – 44 Pin			X	
COM 1-232	X			
COM 2-232	X			
COM 2-422	X			
COM 2-485	X			
COM 2-Ring /+5V /+12V			X	
COM 3-232			X	
COM 4-232			X	
COM 5-232			X	
COM 6-232			X	

PS/2 Mouse & Keyboard (Internal)			X	
PS/2 Mouse & Keyboard (External)			X	
Audio Connector			X	
Audio 5.1 Channel / S/P DIF			X	
LPT 1			X	
LPT 2			X	
SIR / 115.2 Kbps			X	
FIR / 4M bps			X	
USB 1/2 Ports	X			
USB 3/4 Ports			X	
USB 5/6 Ports			X	
USB 7/8 Ports			X	
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 Ports			X	
USB 2.0 5/6 Ports			X	
USB 2.0 7/8 Ports			X	
DVI Function			X	
DIO Connector			X	
Card Bus			X	
PC/104			X	
PC/104-Plus			X	
PCI-104			X	
CD-In Connector			X	
TFT TTL LCD			X	
TFT LVDS LCD			X	
TV-out / S Terminal			X	
TV-out / AV Terminal			X	
Touch Screen – 8 Wire			X	
Touch Screen – 5 Wire			X	
DIMM Slots			X	
Watchdog IRO n			X	
Watchdog Software Control	X			
CPU FAN Connector			X	
System FAN Connector			X	
Front Panel	Result			Notes
	Pass	Fail	N/A	
Power On Button			X	
IDE LED			X	
External Buzzer			X	
On Board Buzzer			X	
Power LED			X	
Reset Switch			X	
Keyboard Lock			X	
Jumpers Function	Result			Notes
	Pass	Fail	N/A	
ATX simulates AT			X	
Audio Out Selection			X	
LCD Voltage Selection			X	

COM1-Ring/5V Selection	X			
COM2-Ring/RS-232/422/485 Selection	X			
Clear CMOS			X	
Touch Screen Operating Mode			X	
Clock Shift of TFT LCD			X	
Power Connector & Function	Result			Notes
	Pass	Fail	N/A	
ATX Power Connector			X	
ATX Power 12V Connector			X	
AT Power Connector			X	
Big 4P Power Connector			X	
Mini 4P Power Connector			X	
External Power Connector (-12/-5V)			X	
Option ATX Power Connector			X	
LAN Connector & Function	Result			Notes
	Pass	Fail	N/A	
LAN Link / Speed LED	LAN1		X	
	LAN2		X	
LAN Active LED	LAN1		X	
	LAN2		X	
LAN 10/100 Ethernet	X			
LAN 1G Ethernet			X	
PCI Connector & Function	Result			Notes
	Pass	Fail	N/A	
Mini PCI Slot			X	
PCI Slot			X	
PCI Express			X	

3. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
RTC Clock in Power On Mode	±3 second during 24 hours	X		
RTC Clock in Power Off Mode	±3 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

4. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Active LED				X		
		Link LED				X		
		Speed LED				X		
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
		D-Link DGS-1008T	100M	1GBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

5. Hardware Compatibility

CPU Compatible Test					
CPU Type	FSB	Prime95 Version	Result		
			Pass	Fail	N/A
Intel Celeron M373(Dothan) 1.0GHz	400MHz	V2414	X		
Audio Basic Function Test			Result		
			Pass	Fail	N/A
System Sound					X
CD_In					X
CD_In Sound Recorder					X
Play Sound Recorder					X
Line Out					X
Line In					X
Line In Sound Record					X
MIC Speaker		Dynamic			X
		Condenser			X
MIC Sound Recorder		Dynamic			X
		Condenser			X
Audio 5.1 Channel with S/P DIF Function Test			Result		
			Pass	Fail	N/A

2-channel mode for stereo speaker output					X
4-channel mode for 4 speaker output					X
6-channel mode for 5.1 speaker output					X
S/P DIF function Test	Input				X
	Output				X
On Board TV Function Test			Result		
			Pass	Fail	N/A
NTSC		AV Terminal			X
PAL					X
NTSC		S Terminal			X
PAL					X
On Board LCD Function Test					
TFT LCD	Type	Voltage	Result		
			Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V			X
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V			X
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit				X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit				X
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X
PCI Slot Function (PCI Adapter Card) Test					
Model	Type	Result			
		Pass	Fail	N/A	
CHANTECH NVIDIA GeForce4 MX440-8X	VGA Card				X
SC3000 CMI8738/C3DX	Sound Card				X
Takram DC-395U V1.02	SCSI Card				X
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card				X
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card				X
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card				X
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card				X

D-Link DWL-520+ Wireless LAN	LAN Card			X
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card			X
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem Card			X
D-Link DU-520 USB 2.0	USB Hub Card			X
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card			X
ISA Slot Function Test		Result		
		Pass	Fail	N/A
Creative CT4170 Sound Blaster Sound Card				X
Adaptec AHA-1510/20/22B SCSI Card				X
PCI-Express Function Test				
Model		Result		
		Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card				X
SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card				X
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card				X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card				X
XWinFast PX6200 TC TDH PCI-Express x16 VGA Card				X
USB Function Test				
USB Basic Function Test		Result		
		Pass	Fail	N/A
USB Controller		X		
USB 2.0 Controller		X		
USB Keyboard Support			X	
USB Mouse Support			X	
USB 1.1 Compatible Test		Result		
		Pass	Fail	N/A
USB 1.1 Compatible Test		X		
USB 2.0 Compatible Test		Result		
		Pass	Fail	N/A
USB 2.0 Compatible Test		X		
USB 2.0 Function Test		Result		
		Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS		X		
Digital I/O Connector Test		Result		
		Pass	Fail	N/A
Input Address: 801H				X
Output Address:801H				X
VCC: (5V)				X
DIO-1 Function Test				X
DIO-2 Function Test				X

Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules					
Interface	Model	Type	Result		
			Pass	Fail	N/A
PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-FA00	Mini-PCI Converter			X
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board SCSI Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
RICOH MP7060S	SCSI-CDROM 24X			X	
Fujitsu MCB3064SS	SCSI-MO Device			X	
Seagate 32155W	SCSI-HDD 2.15GB			X	
IBM DNES-309170	SCSI-HDD 9GB			X	
Seagate ST39205LW/P	9GB / Ultra160 / LVD			X	
On-Board RAID Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
Set SATA HDDs as RAID 0	SATA			X	
Set SATA HDDs as RAID 1	SATA			X	
Set SATA HDDs as RAID 10	SATA			X	
Set SATA HDDs as RAID 5	SATA			X	
COM Function Test			Result		
COM Port Burn In Test			X		
Disk On Module [DOM] Compatibility Test					
Model	Interface	Result			
		Pass	Fail	N/A	
Transcend / TS512MDOM40V / 512MB	IDE 40 Pin			X	
Transcend / TS512MDOM44V / 512MB	IDE 44 Pin			X	
Mini PCI Card Compatibility Test					
Model	Interface	Result			
		Pass	Fail	N/A	
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	LAN			X	
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	LAN			X	

PER-C20S SATA RAID MiniPCI Card (Silicon Image Si3512ECTU128 QF7227.1-1)	SATA			X
COM/LPT Ports & RS-232/422/485 Function Test		Result		
		Pass	Fail	N/A
RS-422 for COM2		X		
RS-485 for COM2		X		
COM1		X		
COM2		X		
COM3				X
COM4				X
COM5				X
COM6				X
LPT1				X
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test		Result		
Model		Pass	Fail	N/A
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)				X
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)				X
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)				X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II				X
Modular System Industrial Workstation Function Test		Result		
		Pass	Fail	N/A
AC / DC power outlet / inlet		X		
Power On / Off				X
Digital brightness controller				X
OSD Function Test				X
Mechanism construction check		Result		
		Pass	Fail	N/A
Panel construction check				X
Case construction check		X		
PCMICA construction check				X
I/O Port connector check		X		
USB connector check		X		
Component check		X		

6. O.S. Compatibility Test

Installation Operation System Compatibility Test	Result		
	Pass	Fail	N/A
Windows XP Professional English Version Service Pack 3	X		
Windows 2000 Professional English Version	X		

7. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test			X
Standard CMOS Setup Test			X
Boot Sequence Test	X		
Power Management Test			
APM Power Management Test			X
ACPI Power Management Test			X
Power On Function Test			X
Wake Up Event Test			X
Power On after Power Failure Test			X
CMOS Backup / Clear CMOS Test			X
Boot ROM Test (RPL/PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test			X
Init Display First Function Test			X
On-Chip Serial ATA Function Test			X
SATA Mode-IDE/RAID Function Test			X
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test			X
BIOS AWDFLASH Program Test	X		