

Report NO: 10E010018

# COM-U15

## P5 Test Report

Summary	<input checked="" type="checkbox"/> <b>Pass</b> <input type="checkbox"/> <b>Fail</b> <input type="checkbox"/> <b>Pass with Deviation</b> Comment: _____			
	<b>Test Result Summary</b>			
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date <hr/> 2010/08/09	Approval <hr/> Jansin Lee	Test Engineer <hr/> Leo Liu
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## Platform Information:

<b>Product Model</b>	COM-U15
<b>Description</b>	Intel Menlow Platform COM Express CPU Module
<b>Test Configuration</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> CPU Board : COM-U15 Rev.A2.0 <input checked="" type="checkbox"/> Carrier Board : ECB-951D Rev. A1.0 <input checked="" type="checkbox"/> BIOS : COM-U15 Legacy Free BIOS Rev 2.0 (01/11/2010)  <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> VGA Chipset : Intel System Controller Hub US15W integrated <input checked="" type="checkbox"/> Audio Chipset : Realtek High definition Audio interface <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82574L Gbe  <input checked="" type="checkbox"/> Remark : COM-U15 QE NPDP P5 Report

Item	Device Information	Test Item
PCB Model / Version	COM-U15 Rev.A2.0	1,2,3,4,5,6,7,8
BIOS / Version	COM-U15 Legacy Free / 2.0	1,2,3,4,5,6,7,8
CPU Type	Onboard Intel Atom Z530/Z510 Processor 1.6GHz/1.1GHz	1,2,3,4,5,6,7,8
Memory Type	Transcend DDR2 SO-DIMM 667 2G	1,2,3,4,5,6,7,8
SATA HDD	SATA2 3.5" WD 120GB(WD1200JS)	1,2,3,4,5,6,7,8
Primary IDE Master	FUJITSU 2.5" 4200RPM 40GB(MHW2040AT)	1,2,3,4,5,6,7,8
CRT	Hanns.G 15"(JC151A)	1,2,3,4,5,6,7,8
LCD	AUO G065VN01 V.0 / 640x480x18bit / 6.5" / 3.3V LVDS Panel	5
Compact Flash	Transcend Industrial 8GB	1
OS Install	Windows XP Professional English Version V2002 Service Pack 3	6
Power Supply	DC Adapter : FSP 19V(FSP065-AAC)	1,2,3,4,5,6,7,8

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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 specifications or no test equipment

The test report would be tested and updated after version changed.

## Test Result for Certification

### 1. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	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 7.1 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
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		
CRT	X		
TV-out / S Terminal			X
TV-out / AV Terminal			X
DVI	X		
HDMI			X
Component Video : Y/ Pb /Pr			X
Touch Screen – 4 Wire	X		
Touch Screen – 5 Wire			X
Touch Screen – 8 Wire			X
DIMM Slots	X		
Watchdog IRQ n			X
Watchdog Software Control	X		
CPU FAN Connector			X
System FAN Connector			X
<b>Front Panel</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Power On Button	X		
IDE LED	X		
External Buzzer			X
On Board Buzzer	X		
Power LED	X		
Reset Switch	X		
Keyboard Lock			X
<b>Jumpers Function</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
BIOS write protection Selection and boot Selection			X
Backlight enable level Selection and LVDS Power Selection			X
COM1 +12V/+5V/RING Selection			X
COM2 +12V/+5V/RING Selection			X

Auto Power button Selection and power on selection			X
Power source selection			X
FAN Power Selection			X
CMOS Clear Selection	X		
LCD Brightness and speaker level Selection			X
<b>Power Connector &amp; Function</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Standard AT Power Connector			X
Standard ATX Power Connector			X
5V Only Power Connector			X
DC Adapter	X		
<b>LAN Connector &amp; Function</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
LAN Link / Speed LED	LAN1	X	
	LAN2		X
LAN Active LED	LAN1	X	
	LAN2		X
LAN 10/100 Ethernet	X		
LAN 1G Ethernet	X		
<b>PCI Connector &amp; Function</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Mini PCI Slots			X
PCI Slots			X
PCI Express			X
Mini PCI Express card	X		
Express card			X

## 2. Power Consumption Test (Run Prime95 Program)

### Platform Information

PCB Model / Version / CPU Board	COM-U15 Rev.A2.0
Carrier Board	ECB-951D Rev. A1.0
BIOS	COM-U15 Legacy Free BIOS Rev2.0 (01/11/2010)
Operating System	Windows XP Professional SP3
CPU	Onboard Intel Atom Z530/Z510 Processor 1.6GHz/1.1GHz
Memory	Transcend DDR2 SO-DIMM 667 2G
SATA HDD	SATA2 3.5" WD 120GB(WD1200JS)
Primary IDE Master	N/A
Primary IDE Slave	N/A
CRT	Hanns.G 15"(JC151A)
LCD	N/A
Compact Flash	N/A
Backplane	N/A

<b>Riser Card</b>	<b>N/A</b>
<b>Power Supply</b>	<b>DC Adapter : FSP 19V(FSP065-AAC)</b>

Test Environment	DC Power(8.5V~19V):	Note
Model		
CPU	Intel Atom Z530/Z510 Processor 1.6GHz/1.1GHz	
SSD	PATA SSD 4GB on Board	
RAM	Transcend DDR2 SO-DIMM 667 2G	
OS Environment	Windows XP Professional SP3	
Normal Mode (+8.50V)	N/A	A Prime 95 in XP
Suspend Mode (+8.50V)	N/A	A Suspend in XP (S1)
Power On Mode(+8.50V)	N/A	A Max rush current during boot to Windows
Normal Mode (+12V)	N/A	A
Suspend Mode (+12V)	N/A	A
PowerOn Mode (+12V)	N/A	A
Normal Mode (+16V)	N/A	A
Suspend Mode (+16V)	N/A	A
Power On Mode(+16V)	N/A	A
Normal Mode (+19V)	0.95	A
Suspend(S3) Mode (+19V)	0.30	A

### 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		Link / Speed LED				X		
		Active LED				X		
LAN2 LED		Link / Speed LED						X
		Active LED						X
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
Onboard LAN1	10/100/1000 Mbps	D-Link DGS-1008T	100M	1GBps	1000	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		
Onboard LAN2	10/100/1000 Mbps	D-Link DGS-1008T	100M	1GBps	1000			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		
Onboard Intel Atom Z530 Processor 1.6GHz	533MHz	V.259	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
Transcend	Micron(7TE17 D9HNL)	667MHz	2GB	V3.5	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
8-channel mode for 7.1 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		
	Data Image 7" / 800*480 / 18bit (16:9)	3.3V	X		
	AU G084SN05 V.3 / 8.4" / 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
	Toshiba /12.1"/1280 x 768 x 18bit (16:9)	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	5V			X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit	5V			X
	AUO M190PW01 V0 / 19"/1440X900/48 bit	5V			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
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
Creative Sound BLASTER Live5.1	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
NE2000 Compatible LAN Card (RTL8019AS)			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
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X
<b>HDD Compatibility Test</b>			
Model	Result		
	Pass	Fail	N/A
FUJITSU 2.5" 4200RPM 40GB(MHW2040AT)	X		
Fujitsu MHY2080BH 80GB 2.5" HDD / ATA-133 / SATA			X
Western Digital/WD8800AAJS / 80GB / SATA II			X
HITACHI HDP725025GLA380 / 250GB / SATA 3.0Gb/s			X
<b>IDE Cable Function test</b>			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA100			X
44 Pin Cable ATA33	X		
80 Pin Cable ATA100			X
<b>USB Function Test</b>			
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: SONY USB2.0 DVD-R/W DRX-830UL	X		
USB Device Full Loading Test	Result		
	Pass	Fail	N/A
USB FDD	X		
USB HDD 20GB	X		

USB DVD-R/W	X		
USB HUB	X		
USB Flash drive Transcend 2GB	X		
Floppy Disk Controller Function Test	Result		
	Pass	Fail	N/A
Copy and compare file between C: and A / B:			X
Change Floppy to None value			X
Swap FDD			X

Peripheral Compatibility-Storage Device				
Model	Interface	Result		
		Pass	Fail	N/A
FUJITSU MCB3064SS	SCSI			X
IOMega ZIP 100 parallel port	Parallel			X
IOMega ZIP100MB Internal ATAPI Drive	IDE			X
DOC				X
Type-I CF	Fix / PIO Mode	X		
Type-I CF	Fix / UDMA Mode			X

Digital I/O Connector Test				
		Result		
		Pass	Fail	N/A
Input Address:				X
Output Address:				X
VCC: (5V) , Position : ( 801 )				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
PCI/104 Express	AAEON PER-123				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
<b>On-Board RAID Function Test</b>				
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
<b>COM Function Test</b>		Result		
		Pass	Fail	N/A
COM Port Burn In Test overnight				X
<b>Disk On Module [DOM] Compatibility Test</b>				
Model	Interface	Result		
		Pass	Fail	N/A
Transcend / TS512MDOM40V / 512MB	IDE 40 Pin			X
Transcend / TS512MDOM44V / 512MB	IDE 44 Pin			X
<b>Mini PCI Card Compatibility Test</b>				
Model	Interface	Result		
		Pass	Fail	N/A
PCI 10/100 LAN Mini PCI Card (Model:PER-C10L)	LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	WLAN			X
<b>COM/LPT Ports &amp; RS-232/422/485 Function Test</b>		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
<b>Card Bus(PCMCIA) Compatibility Function Test</b>				
Model	Result			
	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 Typell HDD)			X
PCI GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X

## 6. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result			
			Pass	Fail	N/A	
[ ] Linux-Red Hat 9.0 or [ X ] Fedora Core 10			X			
Windows 7 Ultimate English Version			X			
Windows Vista TM Ultimate English Version					X	
Windows Vista TM Ultimate x64 Edition English Version					X	
Windows XP Professional English Version V2002 Service Pack 3			X			
Windows XP Professional English Version /Standard x64 Edition					X	
Windows 2000 Professional English Version V5.00.2195 Service Pack4					X	
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4					X	
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4					X	
Windows Server 2000 English Version					X	
Windows Server 2003 English Version / Standard Edition 5.2.3790					X	
Windows Server 2003 English Version /Standard x64 Edition					X	
Windows 98SE English Version V4.10.2222A					X	
DOS 6.22 English Version					X	
Utility and Driver Test						
OS	Drivers Version		Result			
			Pass	Fail	N/A	
Linux-Fedor 9/ 2.6.27.5-117. FC10	Kernel-	Chipset Software	Default Driver	X		
		Graphics Media	Default Driver	X		
		LAN Driver	Default Driver	X		
		Audio Driver	Default Driver	X		
Windows 7 Ultimate English Version		Chipset Software	Intel(R) SCH Family 8.8.0.1011(04/02/2008)	X		
		Graphics Media	Standard VGA Graphics Adapter 6.1.7600.16385(6/21/2006)	X		
		LAN Driver	Intel(R) 82574L Gigabit Network Connection 11.0.5.21(4/6/2009)	X		
		Audio Driver	High Definition Audio Device 6.1.7600.16385(7/13/2009)	X		
Windows Vista TM Ultimate English Version		Chipset Software				X
		Graphics Media				X
		LAN Driver				X
		Audio Driver				X
Windows Vista TM Ultimate x64 Edition English Version		Chipset Software				X

	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 3	Chipset Software	Intel(R) SCH Family 8.8.0.1011(04/02/2008)	X		
	Graphics Media	Intel(R) Graphics Media Accelerator 500 6.14.10.1079(10/20/2008)	X		
	LAN Driver	Intel(R) 82574L Gigabit Network Connection 10.3.49.0(8/5/2008)	X		
	Audio Driver	Realtek High Definition Audio (2.83)R2.32; 5.10.0.5772(1/6/2009)	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2000 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2003 English Version Standard x64 Edition	Chipset Software				X
	Graphics Media				X

	LAN Driver				X
	Audio Driver				X
Windows 98SE English Version V4.10.2222A	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				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		
<b>Power Management Test</b>			
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 / DVI / HDMI //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
<b>PC Health Status</b>			
Voltage Monitor Test			X
FAN Speed Monitor Test			X
Temperature Monitor 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



## 8. Performance Test

### Platform Information

CPU Board	COM-U15 A2.0
Carrier Board	ECB-951D A1.0
BIOS	COM-U15 Legacy Free / 2.0
Operating System	English Windows XP Professional Service Pack 3
CPU	Onboard Intel Atom Z530 Processor 1.6GHz
Memory	Transcend DDR2 SO-DIMM 667 2G
SATA HDD	N/A
Primary IDE Master	N/A
Primary IDE Slave	N/A
CRT	Hanns.G 15"(JC151A)
LCD	N/A
Compact Flash	N/A
Expansion Board	N/A
Chipset Software	Intel(R) SCH Family 8.8.0.1011(04/02/2008)
Graphics Media	Intel(R) Graphics Media Accelerator 500 6.14.10.1079(10/20/2008)
LAN Driver	Intel(R) 82574L Gigabit Network Connection 10.3.49.0(8/5/2008)
Audio Driver	Realtek High Definition Audio (2.83)R2.32; 5.10.0.5772(1/6/2009)
Touchscreen Driver	N/A
Power Supply or Adapter	DC-Adapter : FSP 19V(FSP065-AAC)

### Test result:

Testing Software	Result	Unit
<b>PCMark2002</b>		
CPU	2653	
Memory	5622	
HDD	N/A	
<b>Final Reality V1.01—BenchMark Test</b>		
2D image	18.02	<b>Reality marks</b>
3D	2.90	
Bus transfer	11.61	
Overall	8.74	
<b>3Dmark2001</b>		
3Dmark2001SE Build 330_Benchmark mode	867	

**Test Result:**

Testing Software	Result	Unit
<b>PCMark05</b>		
PCMark	N/A	PCMarks
CPU	1483	
Memory	2338	
Graphics	N/A	
HDD	1017	
<b>3Dmark2003 v360</b>		
3Dmark Score	492	

**Remark: Please uses below two performance software to test main board if the chipset is new enough.  
(ex. Intel Core 2 Duo CPU)**