

P5 Verification Test Plan

Release No : 10E010004

Product Model	COM-U15
Description	Intel Menlow Platform COM Express CPU Module
Test Configuration	<ul style="list-style-type: none"> ⌘ New product ⌘ CPU Board : COM-U15 Rev. A1.0 ⌘ Carrier Board : ECB-951D Rev. A1.0 ⌘ BIOS : COM-U15/NANO COM-U15 BIOS Rev 1.0 (03/27/2009) ⌘ Chipset : ⌘ CPU : Onboard Intel Atom Z530/Z510 Processor 1.6GHz/1.1GHz ⌘ North Bridge : Intel US15W ⌘ South Bridge : Intel SCH LPC Bridge ⌘ VGA Chipset : Intel System Controller Hub US15W integrated ⌘ Audio Chipset : Realtek High definition Audio interface ⌘ Ethernet Chipset : Intel 82574L Gbe Ethernet ⌘ I/O Chipset : Intel System Controller Hub US15W / IT8513(On ECB-951D) ⌘ SDVO : Intel System Controller Hub US15W intergrated ⌘ Remark : QE NPDP P5 Report for COM-U15
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2010//02/25

Issue date

Wenyuan Yang

Manager

Allen Hsu

Test Engineer

Summary Table of contents :

Summary Table of contents	2
Platform Information	3
1. I/O Peripheral Function Test	4
2. Power Connector Test	7
2.1. Power Consumption Test	7
3. Timer Accuracy Test	8
4. Network HUB / LAN Connection Test	8
5. Hardware compatibility	9
6. O.S. Compatibility Test	14
7. BIOS Function Test	16
8. Performance Test	17

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	Test Item
PCB Model	COM-U15 Rev. A1.0	1,2,3,4,5,6,7,8
BIOS / Version	COM-U15/NANO COM-U15 BIOS Rev 1.0 (03/27/2009)	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	Seagate 3.5' SATA H.D ST380815AS 80G	1,2,3,4,5,6,7,8
Primary IDE Master	PATA SSD APS0002G1 2G	1,2,3,4,5,6,7,8
Primary IDE Slave	N/A	N/A
CRT	ViewSonic E70 17"	1,2,3,4,5,6,7,8
LCD	Data Image-FG0700A2DSSWAGT1/ 800*480/ 18bit Toshiba LTD12EX1S / 1280*768 / 18bit AUO B121EW09 V.0 / 1280*800 /18bit AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3) AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3) AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3) AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3) AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3) AU M170EG01 V.D/ 17" / 1280*1024 / 48bit (4:3)	1,2,3,4,5,6,7,8
Compact Flash	Transcend CF 4G/2G	1,2,3,4,5,6,7,8
PCI-104	N/A	N/A
Backplane	N/A	N/A
Operating System	[] Linux-RedHat 9.0 or [X] Fedora Core 10 (Kernel:2.6.27)	1,2,3,4,5,6,7,8
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 3	1,2,3,4,5,6,7,8
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	N/A
	Windows Vista 32-bit	1,2,3,4,5,6,7,8
Power Supply	Windows Vista 64-bit	N/A
	ATX Power : N/A	N/A
	AT Power : N/A	N/A
	DC Power: SWITCH-MODE- 3A-621DA19 – Output 19V	1,2,3,4,5,6,7,8

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-Ring /+5V /+12V	X		
COM 2-422	X		
COM 2-485	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
IRDA			X
USB 1/2 Ports	X		
USB 3/4 Ports	X		
USB 5/6 Ports (Reserve port)			X
USB 7/8 Ports (Reserve port)			X
USB 2.0 1/2 Ports	X		
USB 2.0 3/4 Ports	X		
USB 2.0 5/6 Ports (Reserve port)			X

USB 2.0 7/8 Ports (Reserve port)			X
DVI Function (SDVO to DVI)	X		
DIO Connector			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 – 4 Wire	X		
DIMM Slots	X		
Watchdog IRQ n			X
Watchdog Software Control	X		
CPU FAN Connector			X
System FAN Connector			X
Front Panel (CN7)	Result		
	Pass	Fail	N/A
Power On Button	X		
IDE LED			X
External Buzzer			X
On Board Buzzer			X
Power LED			X
Reset Switch	X		
Lightness setting	X		
Sound Volume setting	X		
Jumpers Function	Result		
	Pass	Fail	N/A
SSD Write Protect (Reserve)			X
SATA Bridge Master/ Slave setting	X		
SSD Master/ Slave setting	X		
AT/ATX setting Switch	X		
COM2 +12V/+5V/RING Selection (Carrier Board)	X		
BIOS Boot Selection (Carrier Board)	X		
Clear CMOS (Carrier Board)	X		
USB1 5VDAUL/3VDUAL Selection (Carrier Board)	X		
COM1 +12V/+5V/RING Selection (Carrier Board A1.0)	X		
Power Connector & Function	Result		
	Pass	Fail	N/A
DC Adapter	X		
ATX Power Connector			X
ATX Power_12V Connector			X
AT Power Connector			X
Big 4P Power Connector			X

LAN Connector & Function		Result		
		Pass	Fail	N/A
LAN Speed LED	LAN1	X		
	LAN2			X
	LAN3			X
LAN Active LED	LAN1	X		
	LAN2			X
	LAN3			X
LAN 10/100 Ethernet		X		
LAN 1G Ethernet		X		
PCI Connector & Function		Result		
		Pass	Fail	N/A
Mini PCI Slots				X
PCI Slots				X
PCI Express *1 (Carrier Board Reserve)				X
Mini PCI Express Card		X		

2. Power Connector Test (19V)

Test Method	Result		
	Pass	Fail	N/A
DC Power Connector- Power On/Off for 10 times in DOS	X		
ATX Connector - Power On/Off for 10 times in DOS			X
AT Connector - Power On/Off for 10 times in DOS			X
5V Only - Power On/Off for 10 times in DOS			X

2.1 Power Consumption Test: Using Current scope series connection Test

Test Point: 1. Power on machine and boot into Windows environment

2. Run test software: Prime95 to make system heavy loading in order to measure its maximum current

3. Use Prova EN61010(set as 20A) to measure each current of system different mode

Test Environment	DC Power:	Battery Power:LI-ION	Note
Model	SWITCH-MODE-3A-621DA19 – Output 19V	RECHARGEABLE BATTERY PACK--PC3200	
CPU	Onboard Intel Z530 Processors 1.6GHz	Onboard Intel Z530 Processors 1.6GHz	
HDD	Onboard Intel SSD 2G	Onboard Intel SSD 2G	
RAM	Transcend DDR2 SO-DIMM 667 2G	Transcend DDR2 SO-DIMM 667 2G	
OS Environment	Windows XP Professional SP3	Windows XP Professional SP3	
S0 Mode (+19V)	0.58	A	
S0 Mode (+19V) Run Prime 95	0.60	A	
S3 Mode (+19V)	0.30	A	
S5 Mode(+19V)	40.80	mA	
Deep Sleep Mode (+19V)	8.47	mA	
S0 Mode (+12.0V)	-----	A	0.80
S0 Mode (+12.0V) Run Prime 95	-----	A	0.83
S3 Mode (+12.2V)	-----	A	0.36
S5 Mode(+12.3V)	-----	A	38.5
Deep Sleep Mode (+12.0V)	-----	A	5.11

3. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±3 second during 24 hours	X		
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	5 sec	X		
	10 sec	X		
	60 sec	X		
	255 sec	X		

4. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN 1 LED		Active LED				X		
		Link LED				X		
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
		D-Link DGS-1008T	100M	1GBps	1G	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	533	V25.90	X				
Onboard Intel Atom Z510 Processor 1.1GHz	399	V25.90	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
Transcend	SEC 752 HCE6	667	2G	V2.11	X		
ADATA	AD29608A8A-25EG	800	1G	V2.11	X		
Transcend	ELPIDA E5108AJBG-6E-E	667	1G	V2.11	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	Data Image 7" / 800*480 / 18bit (16:9)	3.3V	X		
	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
	Toshiba LTD12EX1S / 1280*768 / 18bit	3.3V	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	26V			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
	SC3000 CMI8738/C3DX	Sound Card			X
	Takram DC-395U V1.02	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
	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
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
	ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card				X
	WinFast PX6200 TC TDH PCI-Express x16 VGA Card				X
Mini PCI-Express Function Test					

Model	Result		
	Pass	Fail	N/A
RAlink Wireless RT2571WF	X		
Mini PCI-Express Test Card	X		
SATA HD Compatibility Test			
Model	Result		
	Pass	Fail	N/A
FUJITSU 2.5' SATA H.D – MHY2080BH 80G	X		
WD 160G SATA H.D WD1600AAJS	X		
CD/DVD-ROM Compatibility Test (USB DVD-ROM)			
Model	Result		
	Pass	Fail	N/A
ASUS DRW-1604P-D/WHT/G/ASUS	X		
LITEON DX-20A4PU USB DVD-ROM	X		
SONY USB2.0 DVD-R/W DRX-830UL	X		
IDE Cable Function test			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA66			X
44 Pin Cable ATA33	X		
80 Pin Cable ATA100			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
LITEON DX-20A4PU USB-DVD ROM	X		
Kingston USB Device	X		
USB Device Full Loading Test			
Model	Result		
	Pass	Fail	N/A
Mitsumi FLL3.5 D353GUE/FUE	X		

USB HDD 20GB		X			
USB Card Reader		X			
USB Mouse		X			
USB Thumb drive- Kingston 8Gb		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)				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 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				

		Pass	Fail	N/A
COM Port Burn In Test overnight		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 (Use PCI-104 transform board: MBC-1TM Rev.A1.0)	Interface	Result		
		Pass	Fail	N/A
PER-C10L Mini PCI LAN Card(Intel 82551QM)	LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	LAN			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		
LPT1				X
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test				
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 TypeII 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-RedHat 9.0 or [] Fedora Core 4.0 [X] Fedora Core 10			X		
Windows Server 2003 English Version / Standard Edition 5.2.3790					X
Windows Server 2003 English Version /Standard x64 Edition					X
Windows Vista 32-bit			X		
Windows Vista 64-bit					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 Server 2000 English Version					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
Fedora Core 10 (Kernel:2.6.27)	Chipset Software	Use Default Driver	X		
	Graphics Media	Use Default Driver	X		
	LAN Driver	Use Default Driver	X		
	Audio Driver	Use Default Driver	X		
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2003 English Version Standard x64 Edition	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Vista 32-bit	Chipset Software	Intel Chipset Device software -- 9.0.0.1008 -- 5/1/2008	X		
	Graphics Media	Intel Graphics Media Accelerator 500--7 .14.10.1093 -- 12/03/2008	X		
	LAN Driver	Intel 82574L Gigabit Network Connection--10.3.49.0--08/05/2008	X		
	Audio Driver	Realtek High Definition Audio -- 6.0.1.5730 -- 10/31/2008	X		
Windows Vista 64-bit	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional English Version V2002 Service Pack 3	Chipset Software	Intel Chipset Device software -- 9.0.0.1008 -- 5/1/2008	X		
	Graphics Media	Intel(R) Graphics Media Accelerator 500 -- 6.14.10.1079 -- 10/20/2008	X		

	LAN Driver	Intel 82574L Gigabit Network Connection -- 10.3.49 .0 -- 8/5 /2008	X		
	Audio Driver	Realtek High Definition Audio -- 5.10 .0.5672 -- 7/24/2008	X		
Windows XP Professional English Version /Standard x64 Edition	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2000 English Version	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 98SE English Version V4.10.2222A	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			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		
LCD / DVI 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
PC Health Status			
Voltage Monitor Test			X
FAN Speed Monitor Test			X
Temperature Monitor 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

PCB Model	COM-U15 Rev. A1.0
Carrier Board	ECB-951D Rev. A1.0
BIOS	COM-U15/NANO COM-U15 BIOS Rev 1.0 (03/27/2009)
Operating System	Windows XP Professional V2002 Service Pack 3
CPU	Onboard Intel Atom Z530/ Z510 Processor 1.6GHz /1.1GHz
Memory	Kingston DDR2 S0-DIMM 667 2G
SATA HDD	Onboard SSD Chip Intel SSD 2G
Primary IDE Master	FUJITSU 2.5' SATA H.D – MHY2080BH 80G
Primary IDE Slave	N/A
CRT	BENQ DVI Monitor 17" FP931
Compact Flash	N/A
Backplane	N/A
Riser Card	N/A
Chipset Software	Intel Chipset Device software -- 9.0.0.1008 – 5/1/2008
Graphics Media	Intel(R) Graphics Media Accelerator 500 – 6 .14.10.1079 -- 10/20/2008
LAN Driver	Intel 82574L Gigabit Network Connection – 10.3.49.0 -- 8/5/2008
Audio Driver	Realtek High Definition Audio -- 5.10.0.5672 – 7 /24/2008
Power Supply	SWITCH-MODE- 3A-621DA19 – Output 19V

Test result:

Final Reality V1.01—BenchMark Test (Reality Marks) (1024*768) (Z530/Z510)		
2D Image	9.95/5.34	
3D	2.40/2.10	
Bus transfer	11.14/4.17	
Overall	5.98/3.38	Reality marks
3Dmark2001SE Pro ((1024*768)		
3DMark2001SE Build 330_Benchmark mode	649/505	
3Dmark2003 v340 (1024*768)		
3Dmark Score	438/370	
PCMark2002 (1024*768)		
CPU	1322/957	
Memory	3729/N/A	
HDD	423/N/A	
PCMark05 (1024*768)		
PCMark	N/A/N/A	
CPU	746/444	
Memory	1452/1012	
Graphics	N/A/N/A	
HDD	3175/3026	