

## TSD SBC Standard Test Report

### Introduction

This test report is presented to demonstrate the functionality of the tested Single Board Computer (SBC), in terms of hardware, operating system, and basic function. There is no guarantee that parts or devices of the same functions will perform the same way. However, since all the parts and devices used in the testing covers almost the range of those elements used in a basic computer system, this report should stand as a reference guide to show the supporting capability of the tested SBC.

**Product Model**     ROBO-618    

**Engineer**                 Nick                

System Default Configuration	
<b>SBC &amp; Version</b>	ROBO-618 (R3M0E8)
<b>BIOS Version</b>	R1.05
<b>Backplane</b>	ACTI-14P4 / 14AA
<b>CPU</b>	Intel PIII-550
<b>RAM</b>	PC-100, 256MB
<b>Floppy</b>	1.44MB
<b>IDE HDD</b>	Quantum 13GB
<b>SCSI HDD</b>	N/A
<b>CD-ROM</b>	32X
<b>VGA adaptor</b>	ATI 3D Rage II + DVD
<b>Ethernet adaptor</b>	D-Link DE530TX
<b>SCSI adaptor</b>	Adaptec 2940
<b>Power Supply</b>	250W
<b>DiskOnChip</b>	N/A
<b>Other</b>	N/A

*(To be continued)*

(Continued)

Microsoft Operating System Installation Test							
OS	Windows-95		Windows-98		Windows-NT 4.0		Windows-2000
	English	Japan	English	Japan	English	Japan	
Installation	PASS	PASS	PASS	PASS	PASS	PASS	X
Service Pack 5	X	X	X	X	PASS	PASS	X
VGA driver (ATI 3D Rage II+DVD))	PASS	PASS	PASS	PASS	PASS	PASS	X
Ethernet driver (DE530TX)	PASS	PASS	PASS	PASS	PASS	PASS	X
SCSI driver (Adaptec2940)	PASS	PASS	PASS	PASS	PASS	PASS	X
Sound driver ( )	PASS	PASS	PASS	PASS	PASS	PASS	X
USB Update	PASS	PASS	X	X	X	X	X
PCI Bridge Update	PASS	PASS	X	X	X	X	X

\* USB Update and PCI Bridge Update are only for Windows-95. Windows-95 requires these updates to pick up the latest chipset component drivers for Intel 82440BX, 82440GX, 82810E, 82840, and 82815E chipsets.

Basic BIOS Function Test		
Test Items	Result	Remarks
Boot up sequence	PASS	FDD/IDE/CDROM/SCSI/DOC
Automatic HDD detection	PASS	13 GB
Load in default BIOS setting	PASS	
Save & Exit	PASS	
Disable FDD	PASS	
Disable COM port 1/2/3/4	PASS	
Disable IDE1/2	PASS	
Disable Parallel port	PASS	

(To be continued)

(Continued)

<b>Y2K Utility Test</b>			
<i>Test Items</i>	<i>AMI2000</i>	<i>TEST2000</i>	<i>Y2000</i>
BIOS 2000 Roll-Over	PASS	PASS	PASS
RTC 2000 Roll-Over	PASS	PASS	X
BIOS 2000 Leap Year	PASS	PASS	PASS
BIOS 2001 Non-Leap Year	PASS	PASS	PASS
BIOS 2002 Non-Leap Year	PASS	PASS	PASS
BIOS 2003 Non-Leap Year	PASS	PASS	PASS
BIOS 2004 Non-Leap Year	PASS	PASS	PASS
BIOS 2005 Non-Leap Year	PASS	PASS	PASS
BIOS 2006 Non-Leap Year	X	X	PASS
BIOS 2007 Non-Leap Year	X	X	PASS
BIOS 2008 Non-Leap Year	X	X	PASS
BIOS 2000 Non-Leap Year	X	X	PASS
BIOS Compatibility	X	PASS	X
RTC Reboot Roll-Over	X	PASS	X
RTC 2000 Operation	X	PASS	X

<b>Other Compatibility Tests</b>		
<i>Test Items</i>	<i>Result</i>	<i>Remarks</i>
Fastest Slot-1 PIII	PASS	FSB <u>100</u> Mhz CPU Speed <u>550</u> Mhz
Fastest Slot-1 PIII Coppermine	X	FSB _____ MHx CPU Speed _____ MHz
Start system w/o K/B	PASS	Reconnect keyboard after boot up ( X )
HDD Detection	PASS	Maximum size <u>13</u> GB
AT Power	PASS	<u>110</u> V <u>250</u> W
ATX Power	PASS	Soft-off Windows-95 => <u>PASS</u> Soft-off Windows-98 => <u>PASS</u> Soft-off Windows-2000 => <u>X</u> Soft-off Linux => <u>PASS</u>
Power button function	PASS	On-Off => <u>PASS</u> Suspend (Display/HDD) => <u>PASS</u>

(To be continued)

(Continued)

Test Items	Result	Remarks
QNX 4.25 Installation	PASS	
Linux Installation Version <u>6.0</u>	PASS	Video driver <u>    X    </u> Ethernet driver <u>PASS</u>
SCO OpenServer V5.2 Installation	PASS	
SCO Unixware V7.0 Installation	X	
IRQ Management	PASS	IRQ #3, #4, #5, #7, #9, #10, #11, #14, #15
S3 PCI VGA card (Virge/DX 86C375) (Trio64V2/DX 86C775)	PASS	Primary PCI slot #1 =>PASS Primary PCI slot #2 =>PASS Primary PCI slot #3 =>PASS Primary PCI slot #4 =>PASS
C&T PCI VGA card (C&T 65554)	PASS	Primary PCI slot #1 =>PASS Primary PCI slot #2 =>PASS Primary PCI slot #3 =>PASS Primary PCI slot #4 =>PASS
ATI PCI VGA card (ATI 3D Rage II +DVD)	PASS	Primary PCI slot #1 =>PASS Primary PCI slot #2 =>PASS Primary PCI slot #3 =>PASS Primary PCI slot #4 =>PASS
PCI Ethernet card x 4 in Windows-NT 4.0	PASS	Primary PCI slot #1 =>PASS Primary PCI slot #2 =>PASS Primary PCI slot #3 =>PASS Primary PCI slot #4 =>PASS
Transfer 100MB file through Network card	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>    X    </u>
Transfer 100MB file through SCSI card from IDE HDD to SCSI HDD	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>    X    </u>

(To be continued)

(Continued)

Test Items	Result	Remarks
Cirrus Logic ISA VGA Card	PASS	ISA Slot => <u>PASS</u>
Timer counting in BIOS	PASS	<u>3</u> Minutes => <u>PASS</u>
High resolution video detection for VGA over 2 <sup>nd</sup> PCI slot	PASS	Windows-95 =>(1024*768, 32Bit) Windows-98 =>(1024*768, 32Bit) Windows-NT 4.0=>(1024*768, 32Bit) Windows-2000=>( , Bit)
Apply all RAM banks with 256 MB SDRAM ( buffered/non-buffered )	X	Windows-98/NT 4.0 => 4 x 256MB Windows-95/Linux => 3 x 256MB Windows-2000 => 4 x 256MB
Windows Invalid Shutdown Test	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>X</u>
Turn on ECC-Hardware and adopt ECC SDRAM	PASS	Windows-95 =>PASS Windows-98 =>PASS Windows-NT =>PASS Windows-2000 => X
Mouse + K/B detection under Windows-NT 4.0	X	

(End of Report)