

## 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-668    

**Engineer**     Tim    

System Default Configuration	
<b>SBC &amp; Version</b>	ROBO-668 (R0M0E0)
<b>BIOS Version</b>	R1.01 (09112000)
<b>Backplane</b>	PBP-19P4
<b>CPU</b>	PIII-850E x 2
<b>RAM</b>	Apacer / PC-100 / 128MB x 2
<b>Floppy</b>	TEAC 1.44MB
<b>IDE HDD</b>	Seagate ST320420A (20.4GB)
<b>SCSI HDD</b>	Seagate ST39173W (9.1GB)
<b>CD-ROM</b>	Afreey 50x
<b>VGA adaptor</b>	CT69000 (Onboard)
<b>Ethernet adaptor</b>	Intel 82559 (Onboard)
<b>SCSI adaptor</b>	AHA-2940U2W
<b>Power Supply</b>	PW-300ATX
<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	Windows ME
	English	Japan	English	Japan	English	Japan	English	English
Installation	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Service Pack 6	X	X	X	X	PASS	PASS	X	X
VGA driver (CT69000)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Ethernet driver (Intel 82559)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
SCSI driver (Adaptec-2940U2W)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Sound driver (YAMAHA 742)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
USB Update	PASS	PASS	X	X	X	X	X	X
PCI Bridge Update	PASS	PASS	X	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	<u>60</u> 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
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 PPGA Celeron	PASS	FSB <u>66</u> Mhz CPU Speed <u>533</u> Mhz
Fastest FC-PGA Celeron	PASS	FSB <u>66</u> Mhz CPU Speed <u>700</u> Mhz
Fastest FC-PGA PIII	PASS	FSB <u>100</u> Mhz CPU Speed <u>850E</u> Mhz
Start system w/o K/B	PASS	Reconnect keyboard after boot up ( <u>PASS</u> )
HDD Detection	PASS	Maximum size <u>60</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>PASS</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)

<i>Test Items</i>	<i>Result</i>	<i>Remarks</i>
<b>QNX 4.25 Installation</b>	PASS	
<b>Linux Installation Version <u>6.2</u></b>	PASS	
<b>Solaris 8</b>	PASS	
<b>SCO OpenServer V5.2 Installation</b>	PASS	
<b>SCO Unixware V7.1.1 Installation</b>	PASS	
<b>IRQ Assignment</b>	PASS	IRQ #3, #4, #5, #7, #9 (Slot #1/#2 only)
<b>S3 PCI VGA card (86C765)</b>	PASS	Primary PCI slot #1 => PASS Primary PCI slot #2 => PASS Primary PCI slot #3 => PASS Primary PCI slot #4 => PASS
<b>C&amp;T PCI VGA card (C&amp;T 65550)</b>	PASS	Primary PCI slot #1 => PASS Primary PCI slot #2 => PASS Primary PCI slot #3 => PASS Primary PCI slot #4 => PASS
<b>PCI Ethernet card x 4 in Windows-NT 4.0</b>	PASS	Primary PCI slot #1 => PASS Primary PCI slot #2 => PASS Primary PCI slot #3 => PASS Primary PCI slot #4 => PASS
<b>Transfer 100MB file through Network card</b>	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>PASS</u>
<b>Transfer 100MB file through SCSI card from IDE HDD to SCSI HDD</b>	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>PASS</u>
<b>Cirrus Logic ISA VGA Card</b>	PASS	ISA Slot => <u>PASS</u>
<b>Timer counting in BIOS</b>	PASS	<u>3</u> Minutes => <u>PASS</u>

(To be continued)

(Continued)

<b>Test Items</b>	<b>Result</b>	<b>Remarks</b>
<b>High resolution video detection for VGA over 2<sup>nd</sup> PCI slot</b>	PASS	Windows-95 =>(1024*768, 24Bit) Windows-98 =>(1024*768, 24Bit) Windows-NT 4.0=>(1024*768, 24Bit) Windows-2000=>(1024*768, 24Bit)
<b>Apply all RAM banks with PC-100/PC-133 Memory</b>	PASS	Windows-98/NT 4.0/Linux => 4 x 256MB Windows-95 => 3 x 256MB Windows-2000 => 4 x 256MB
<b>Windows Invalid Shutdown Test</b>	PASS	Windows-95 => <u>PASS</u> Windows-98 => <u>PASS</u> Windows-NT 4.0 => <u>PASS</u> Windows-2000 => <u>PASS</u>
<b>Mouse + K/B detection under Windows-NT 4.0</b>	PASS	

(End of Report)