

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-608

Engineer Tim

| System Default Configuration | |
|------------------------------|----------------------|
| SBC & Version | ROBO-608 (R1M0E2) |
| BIOS Version | R1.02 |
| Backplane | ACTI-14AA |
| CPU | Intel Celeron 500 |
| RAM | PC-100, 256MB |
| Floppy | 1.44MB |
| IDE HDD | Quantum 13GB |
| SCSI HDD | N/A |
| CD-ROM | 32X |
| VGA adaptor | C&T 69000 (on board) |
| Ethernet adaptor | D-Link DE530TX |
| SCSI adaptor | Adaptec 2940 |
| Power Supply | 250W |
| DiskOnChip | N/A |
| Other | N/A |

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| 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 (C&T 69000) | 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 (ESS 1938S) | 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 | |

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| Y2K Utility Test | | | |
|-------------------------|---------|----------|-------|
| Test Items | AMI2000 | TEST2000 | Y2000 |
| 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 |

| Other Compatibility Tests | | |
|---------------------------|--------|--|
| Test Items | Result | Remarks |
| Fastest PPGA Celeron | PASS | FSB <u>66</u> Mhz CPU Speed <u>500</u> Mhz |
| Fastest FC-PGA Celeron | X | FSB <u>66</u> Mhz CPU Speed <u> </u> Mhz |
| Fastest FC-PGA PIII | X | FSB <u> </u> Mhz CPU Speed <u> </u> Mhz |
| Start system w/o K/B | PASS | Reconnect keyboard after boot up (<u>X</u>) |
| 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> |

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| 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> |

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| 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 2nd 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) | PASS | 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)