

Tested Obsolete Computer Parts

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ATP_ATR_SBC_ROBO8712VLAD_SN_0601A08417_



Acceptance Test Procedure

And Results (ATP + ATR)

for

Single Board Computer

Manufacture model: ROBO8712VLAD-2GHz-1GB

Serial Number: 0601A08417

#	Name	Date	signature
Written by	Dan Gilboa	12 June 2013	DG
Checked by	Dan Gilboa	12 June 2013	DG
Customer			
Order no.			
Tested Date	18 June 2013		
Gilboa Engineering Consulting LTD			

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1. Summary

- a. The Single Board Computer (SBC) is assembled from:
 - b. SBC of Portwell, model "ROBO-8712VLA-D"
 - c. CPU of Intel, Pentium 4, 2.0GHz, Specification number: SL6GQ or similar
 - d. Memory of Transcend , 2 x 512, model TS64MLD64V6F5 or similar
 - e. CPU Cooling Fan for Socket 478: CoolJag

2. The following Assembly and Test procedure are conducts:
 - a. Verifying of the correct PN of SBC, CPU, Memory and Fan.
 - b. Written of SBC SN, CPU SN, Memory SN and Fan SN.
 - c. Assembly of CPU, FAN and Memory.
 - d. Apply CPU Fan thermal paste.
 - e. Adding warranty label to the assembled SBC.
 - f. Visual inspection of the assembled SBC.
 - g. Installing the SBC in a PC with backplane type PCIMG, part number: PCI-14S2.
 - h. Connecting: Display, Keyboard & Mouse, Ethernet cable, HDD-IDE (primary), CD-IDE (secondary), Floppy, RS232-COM1, RS232-COM2 and Parallel Port.
 - i. Powering the PC.
 - j. Entering the BIOS menu, and setting the time & Date, Auto-detect IDE devices (HDD and CD), Setting booting sequence (Floppy, HDD, CD). Checking PC-Health menu (voltages and CPU temperature), disabling Anti-Virus feature.
 - k. Verifying general operation of the PC (Windows XP is booting, Keyboard and mouse functioning).
 - l. Testing CPU – speed and ID number
 - m. Testing memory – size
 - n. Testing mouse
 - o. Testing Keyboard
 - p. Testing COM1, COM2 connections (in DOS with "CheckIt" software)
 - q. Testing Parallel Port (in DOS with "CheckIt" software)
 - r. Testing CD interface
 - s. Testing FDD interface
 - t. Verifying operation of the CPU Cooling Fan

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Acceptance Test Results

1. SBC PN: ROBO-8712VLA-D
2. SBC Serial Number: 0601A08417
3. Visual identification of components

#	Item	PN	Status	SN	Notes
1	SBC	ROBO-8712VLA-D	OK	0601A08417	-
2	CPU	Intel, Pentium4, 2.0GHz Spec: SL6GQ or similar	OK	SL6GQ Philippines 70.7A369-0148	SN is copied from the CPU
3	Memory	Transcend or similar: 2 x 512 or 1 x 1024MB	OK	2 x 512MB Transcend TS64MLD64V6F5	Copied from Memory: 133123-0187 130738-0139
4	FAN	CoolJag	OK	NA	
5	SBC	ROBO8712VLAD- 2GHz-1GB	OK	0601A08417	Assembled from the 4 above items

4. Visual inspection of assembled SBC

#	Item	PN	Assembly status	Notes
1	SBC	ROBO8712VLAD- 2GHz-1GB	YES	
2	Identification label	N/A	YES	Warranty label no.: 988605

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5. SBC installation and basic connection

#	Item	Connected / Installed	Status	Notes
1.	Jumper 1 (JP1)	1-2 Short	OK	CMOS Clear Normal Operation
2.	Jumper 2 (JP2)	5-6,9-11,10-12,15-17,16-18 Short	OK	RS-232
3.	Jumper 3 (JP3)	1-3 Short 2-4 Short	OK	AT Power. If you need ATX Power scheme, refer to the manual
4.	CPU FAN	CPU Cooling FAN: J6	OK	
5.	CMOS Battery	Install 3.3V CR2032 Battery.	OK	
6.	SBC	Installed in PC	OK	PC with backplane PCIMG, part number: PCI-14S2. PSU IS OFF
7.	Keyboard PS/2	Connected: J13	OK	Connected to Y cable
8.	Mouse – PS/2	Connected: J13	OK	Connected to Y cable
9.	HDD IDE	Connected to Primary IDE: J1	OK	Installed with Windows DOS and Windows XP OS
10.	CD/DVD IDE	CD – Connected to Secondary IDE: J2	OK	
11.	FDD	Connected: J3	OK	
12.	Parallel	Connected: J11	OK	
13.	COM1	Connected: J8	OK	
14.	COM2	Connected: J9	OK	
15.	Display	Connected: J20	OK	
16.	Ethernet	Connected: J24	OK	
17.	HDD LED	Connected: J27	OK	Pin 1: HDD LED + Pin 2: HDD LED -
18.	PWR LED	Connected: J30	OK	Pin 1: PWR LED + Pin 3: PWR LED -
19.	PWR Reset	Connected: J33	OK	Pin 1: Reset Signal Pin 2: Ground
20.	12VDC for CPU	12V CPU Power Connector: J26	OK	Must be connected

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6. Operation of SBC

#	Item	Test	Status	Notes
1.	PC PSU	Connect to Power to the Computer and turn ON	-	PC is powering up, showing power up displays
2.	BIOS version	Check BIOS version while booting: R1.00.C6	OK	From boot screen
3.	CPU type	CPU type: Pentium 4, 2.0GHz	OK	According to the configuration
4.	Memory Size	Memory size: 1024MB	OK	According to the configuration
5.	CPU Cooling Fan	Verify that the FAN is rotating and there is air blow	OK	
6.	Hit "DEL" and enter BIOS	Setting BIOS values:	-	
7.		Select Optimal setting	SET	
8.		Set Date & Time to current time & date	SET	
9.		Verify FDD is 1.44MB	SET	
10.		Verify IDE Auto-detect to detect HDD and CD	SET	
11.		Verify boot sequence as follow: First – FDD Second – IDE0 (HDD) Third – CD Try other boot devices - NO	SET	
12.		Verify "PC Health Status" Vcore +1.5VDC +3VDC +5VDC +12VDC -12VDC -5VDC +5VSB VBAT System Temperature CPU temperature	OK	+1.45 to +1.75 V +1.45 to +1.75 V +3.20 to +3.50 +4.75 to +5.25V +10.5 to +13.5V -13.0 to -11.0V -5.50 to -4.50V +4.75 to +5.25V +3.00 to 3.50 V Less than 55 deg C Less than 55 deg C
13.		Virus Warning: enter advanced BIOS features.	OK	

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#	Item	Test	Status	Notes
		Set Virus warning: Disable		
14.		Save setting and Exit BIOS menu: YES	SET	
15.	Boot into DOS	Boot the computer into DOS shell. Run MOUSE.SYS so the PS/2 mouse will be available. Run "Checkit" program	OK	
16.	Mouse	Select Test -> mouse, and perform the tests	OK	
17.	Parallel Port	Select Test -> Parallel.	OK	Use Parallel Port Loopback adapter, "CheckIt" configuration (1-13, 2-15, 10-16, 11-17, 12-14)
18.	Serial Port – COM1	Select Test -> Serial – COM1.	OK	Use Serial Port Loopback adapter, "CheckIt" configuration (1-6, 1-9, 2-3, 4-6, 7-8)
19.	Serial Port – COM2	Select Test -> Serial – COM2.	OK	
20.	Restart	Restart and boot into XP OS.	OK	
21.	XP OS	Select <u>Windows XP</u> from the boot menu.	OK	Windows XP is booting up
22.	Keyboard PS/2	Press WINDOWS key, verify opening of windows. Use other keys to verify proper operation	OK	
23.	Mouse PS/2	Move mouse	OK	
24.	Floppy	Put Floppy diskette in the FDD. Open My computer and navigate to the FDD.	OK	
25.	CD/DVD IDE	Put CD in the VD/DVD. Open My computer and navigate to the CD.	OK	
26.	Run HWINFO32 software	Select the following parameters to be tested:	OK	
27.	CPU type	CPU type: Pentium 4, SL6GQ	OK	

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#	Item	Test	Status	Notes
28.	Memory type and size	Memory size and type: According to configuration	0.99GB OK	From HWINFO32: Row 0: TS64MLD64V6F5 SN: 201851392 Row1: TS64MLD64V6F5 SN: 3002990848
29.	MAC address	From HWINFO32	Info	00-90-FB-0A-0D-9B
30.	Interfacing with PCI and ISA cards	Shutdown the PC. Switch OFF the PC. Install VGA ISA card and connect VGA display to it. Install Network PCI card and connect Ethernet cable to it.	-	
31.	Power ON PC	Switch ON the PC	-	
32.	Checking interface with ISA card	Verify that there is display on the VGA Screen	OK	
33.	Checking interface with PCI card	Verify that the Ethernet card is working: RUN -> CMD -> IPCONFIG. PING 192.168.2.1	OK	The OS returns IP address. Ping to 192.168.2.1 is OK.

Checked by: Dan Gilboa, dan@gilboa-ltd.com

Date: 18 June 2013