

Tested Obsolete Computer Parts

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ATP_ATR_SBC_ROCKY-3705EV-R2_SN_C030073383



Acceptance Test Procedure

And Results (ATP + ATR)

for

Single Board Computer

Manufacture model: ROCKY-3705EV-R2

Serial Number: C030073383

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1. The Single Board Computer (SBC) is assembled from:
 - a. SBC of IEI, model "Rocky-3705EV-R2"
 - b. CPU of Intel, Pentium 1200MHz, Spec: SL5GN, SL5PM or similar
 - c. Memory: 1 x 256MB or 2 x 256 MB or 1 x 512 MB or 2 x 512 MB 6MB
 - d. CPU Cooling Fan for Socket 7: Proper cooling FAN with Heatsink

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 SBC part number and Serial number (that will be of the ROCKY-3705EV-R2 board) 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.
 - i. Powering the PC.
 - j. Entering the BIOS menu, and setting the time & Date, Auto-detect IDE devices (HDD and CD), Setting booting sequence (HDD, CD, Floppy). Checking PC-Health menu (voltages and CPU temperature)
 - k. Verifying general operation of the PC (Windows NT or XP is booting, Keyboard and mouse functioning).
 - l. Testing CPU – speed and ID number
 - m. Testing memory – size
 - n. Testing VGA output
 - o. Testing mouse
 - p. Testing Keyboard
 - q. Testing the Ethernet connection
 - r. Testing COM1 and COM2 connections
 - s. Testing CD interface
 - t. Testing FDD interface
 - u. Verifying operation of the CPU Cooling Fan
 - v. Testing Parallel Port (in DOS with "CheckIt" software)
 - w. Verifying proper interface with ISA & PCI cards.

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3. Acceptance Test Results

1. SBC PN: ROCKY-3705EV-R2
2. SBC Serial Number: C030073383
3. Visual identification of components

#	Item	PN	Status	SN	Notes
1	SBC	ROCY-3705EV-R2	OK	C030073383	
2	CPU	Intel, Pentium III 1200MHz SL5GN, SL5PM or similar	OK		SN is copied from the CPU
3	Memory	Configuration 1 x 256MB or 2 x 256 MB or 1 x 512 MB or 2 x 512 MB	OK	2x 512	
4	FAN	Socket 370 Cooling FAN + heatsink	OK	NA	NA
5	SBC	ROCY-3705EV-R2	OK	C030073383	Assembled from the 4 above items

4. Visual inspection of assembled SBC

#	Item	PN	Assembly status	Notes
1	SBC	ROCY-3705EV-R2	YES	
2	Identification label	-	YES	Warranty label no.: 988642

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5. SBC installation and basic connection

#	Item	Connected / Installed	Status	Notes
1.	Jumper 1	Short 1-2	OK	JP1,2,3,4 : CPU & DRAM FREQUENCY SETTING CPU/DRAM 133/133
2.	Jumper 2	Short 1-2	OK	
3.	Jumper 3	Short 1-2	OK	
4.	Jumper 4	OPEN 1-2	OK	
5.	Jumper 5	Short 2-3	OK	
6.	Jumper 6	Short 2-3	OK	
7.	Jumper 7	No Jumper	N/A	
8.	Jumper 8	Short 2-3	OK	Keep BIOS
9.	Jumper 9	OPEN	OK	
10.	Jumper 10	No Jumper	N/A	
11.	Jumper 11	Short 2-3	OK	
12.	Jumper 12	Short 2-3	OK	
13.	Jumper 13	Short 1-2	OK	Keyboard power selection
14.	Jumper 14	Short 1-2	OK	AT Power supply
15.	CPU FAN	CPU Cooling FAN: CN1	OK	
16.	SBC	Installed in PC	OK	PC with backplane PCIMG, part number: PCI-14S2. PSU IS OFF
17.	Display	Connected (CN22)	OK	
18.	Keyboard PS/2	Connected (CN23)	OK	Connected to Y cable
19.	Mouse – PS/2	Connected (CN23)	OK	Connected to Y cable
20.	Ethernet	100MB connection (CN21)	OK	
21.	HDD IDE	Connected to Primary IDE (CN10)	OK	Installed with DOS and Windows XP OS
22.	CD/DVD IDE	CD – Connected to Secondary IDE (CN9)	OK	

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#	Item	Connected / Installed	Status	Notes
23.	FDD	Connected (CN8)	OK	
24.	Parallel	Connected (CN7)	OK	
25.	COM1	Connect COM1 (CN20)	OK	COM1 – the SBC rear bracket (CN20)
26.	COM2	Connect COM2 (CN12)	OK	COM2 – flat cable connected to SBC CN12
27.	HDD LED	Connected (CN2 – Multi panel)	OK	PIN 7 (IDE LED -) PIN 8 (IDE LED +)
28.	SW Reset	Connected (CN2 – Multi panel)	OK	PIN 5 (RESET SW) PIN 6 (RESET SW GND)
29.	USB 0	CN17	NA	PIN 1 – right
30.	USB 1	CN18	NA	PIN 1 – left

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6. Operation of SBC

#	Item	Test	Status	Notes
1.	PC PSU	Connect to Power and turn ON	-	PC is powering up, showing power up displays
2.	BIOS version	Check BIOS version while booting: 2.0	OK	
3.	Hit "DEL" and enter BIOS	Setting BIOS values:	-	
4.		Select Optimal setting	SET	
5.		Set Date & Time to current GMT	SET	
6.		Verify "PC Health Status" Vcore +5VDC +12VDC -12VDC Vio CPU temperature	OK	+1.7 to +1.8 V +4.7 to +5.3 V +10.5 to +13.5 V -13 to -11 V +3.3.0 to 3.50 V Less 55 deg C
7.		Save setting and Exit BIOS menu: YES	SET	
8.	SW Reset	While the computer boot, before OS is booting, press SW Reset and verify that the computer is reset	OK	
9.	OS	Select <u>Windows XP</u> from the boot menu.	OK	Windows XP is booting up
10.	Keyboard PS/2	Press WINDOWS key, verify opening of windows. Use other keys to verify proper operation	OK	
11.	Mouse PS/2	Move mouse	OK	
12.	Ethernet – 100MB connection	Perform CMD – IPCONFIG test. Verify display IP properties. Open browser and surf the web.	OK	
13.	Floppy	Put Floppy diskette in the FDD. Open My computer and navigate to the FDD.	OK	

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#	Item	Test	Status	Notes
14.	CD/DVD IDE	Put CD in the CD/DVD. Open My computer and navigate to the CD.	OK	
15.	COM1 and COM2	Perform communication test between COM 1 and COM2	OK	Use RS232 D9 F-F cross cable
16.	Reboot the computer	Reboot the computer from windows menu.	-	-
17.	CPU type and speed	While computer is booting verify: CPU: Pentium III 1200MHz	OK	While booting, according to the configuration.
18.	Run HWINFO32 software	Select the following parameters to be tested:	OK	
19.	CPU type	CPU type: Pentium III SL5GN, SL5PM or similar	OK	Speed 1200MHz According to the configuration
20.	Memory type and size	Memory size and type: According to configuration: 2 x 512MB	1024 MB OK	
21.	MAC address	Identification of the board by the Ethernet MAC address	info	00-08-9B-80-14-30
22.	CPU temperature	Verify that the CPU temperature after 1 hour is less than 75 deg.	OK	
23.	CPU Cooling Fan	Verify that the FAN is rotating and there is air blow	OK	
24.	Parallel Port	Boot in DOS OS. Run "CheckIt" program. Select Test -> Parallel.	OK	Use Parallel Port Loopback adapter, "CheckIt" configuration (1-13, 2-15, 10-16, 11-17, 12-14)
25.	Checking interface with ISA cards	Shutdown the computer. Install Video Adaptor ISA type. Connect the VGA screen to this board. Power on the computer and verify that the computer video appears.	OK	
26.	Checking	Shutdown the computer.	OK	

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#	Item	Test	Status	Notes
	interface with PCI cards	Install Ethernet PCI Adaptor. Power on the computer into Windows XP and verify that the Windows recognize this new hardware.		

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Date: 1st November 2013