

**Acceptance Test Procedure**

**And Results (ATP + ATR)**

**for**

**Single Board Computer**

**Manufacture model: ROCKY-3702EV-R4**

**Serial Number: C020095184**

#	Name	Date	signature
Written by	Dan Gilboa	9 March 2012	DG
Checked by	Dan Gilboa	9 March 2012	DG
Customer			
Order no.	018 2012-03-07		
Tested Date	11 March 2012		
<b>Gilboa Engineering consulting LTD</b>			

1. The Single Board Computer (SBC) is assembled from:
  - a. SBC of IEI, model "Rocky-3702EV-R4"
  - b. CPU of Intel, Pentium III, 1000MHz, Spec: SL52R or similar
  - c. Memory of Kingston, Micron Tech or similar: 1 x 128MB, or 2 x 128MB, or 1 x 256MB
  - d. CPU Cooling Fan for Socket 7: Dynatron DC1206BM
  
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-3702EV 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 (Y cable), Ethernet cable, HDD-IDE (primary), CD-IDE (secondary), Floppy, RS232-Com1, RS232-Com2, USB1 and USB2.
  - 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 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 USB1 and USB 2 connections

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## Acceptance Test Results

1. SBC PN: ROCKY-3702EV-R4
2. SBC Serial Number: C020095184
3. Visual identification of components

#	Item	PN	Status	SN	Notes
1	SBC	ROCY-3702EV-R4	OK	C020095184	
2	CPU	Intel, Pentium III, 1000 MHz, spec: SL52R or similar	OK	3112A112-0979 COSTA RICA	SN is copied from the CPU
3	Memory	Kingston or Micron Tech or similar: 1 x 128MB or 2 x 128 MB or 1 x 256MB	OK	1 x 256MB N/A	From the label on the memory bank or HWINFO software (in XP OS)
4	FAN	Dynatron DC1206BM	OK	NA	SN is from the sealed package.
5	SBC	ROCY-3702EV-R4	OK	C020095184	Assembled from the 4 above items

4. Visual inspection of assembled SBC

#	Item	PN	Assembly status	Notes
1	SBC	ROCY-3702EV-R4	YES	
2	Identification label	-	YES	

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## 5. SBC installation and basic connection

#	Item	Connected / Installed	Status	Notes
1.	Jumper 3	Short 1-3 Short 2-4	OK	
2.	Jumper 4	Open	OK	
3.	Jumper 5	Short 2-3	OK	
4.	Jumper 7	Short 1-2	OK	
5.	Jumper 8	Short 1-2	OK	
6.	Jumper 11	Short 3-4	OK	
7.	Jumper 12	Short 3-4	OK	
8.	CPU FAN	CPU Cooling FAN: CN13	OK	
9.	SBC	Installed in PC	OK	PC with backplane PCIMG, part number: PCI-14S2. <b>PSU ISOFF</b>
10.	Display	Connected (J1)	OK	
11.	Keyboard PS/2	Connected (CN18)	OK	Connected to Y cable
12.	Mouse – PS/2	Connected (CN18)	OK	Connected to Y cable
13.	Ethernet	100MB connection (CN10)	OK	
14.	HDD IDE	Connected to Primary IDE (CN1)	OK	Installed with Windows NT4 SP6 OS and Windows XP OS
15.	CD/DVD IDE	CD – Connected to Secondary IDE (CN3)	OK	
16.	COM1 COM2	Connect COM1 and COM2 cables	OK	Com1 – the SBC rear bracket (CN12), Com2 – flat cable connected to SBC CN11 connector
17.	FDD	Connected (CN2)	OK	
18.	HDD LED	Connected (CN7)	OK	CN7: pin 15 (+), pin 13 (-)
19.	UNB cable	Connect USB1 and USB2 cables to CN9	OK	<b>CN9 Pin 1 is USB 1 (+)</b> <b>CN9 Pin 2 is USB 2 (-)</b>

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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: <b>2.2</b>	OK	
3.	Hit "DEL" and enter BIOS	Setting BIOS values:	-	
4.		Select Optimal setting	SET	
5.		Set Date & Time to current Israel setting	SET	
6.		Set FDD to 1.44MB	SET	
7.		Set IDE Auto-detect to detect HDD and CD	SET	
8.		Set "Wait for "F1" if error to: DISABLE	SET	
9.		Set quick boot to: ENABLE	SET	
10.		Set boot sequence as follow: First – IDE0 (HDD) Second – CD Third – Floppy Try other boot devices - NO	SET	
11.		Set Floppy drive swap to: DISABLE	SET	
12.		Set Floppy drive seek to: DISABLE	SET	
13.		Verify "PC Health Status" Vcore +5VDC +12VDC -5VDC -12VDC Vio CPU temperature	OK	+1.7 to +1.8 V +4.7 to +5.3 V +10.5 to +13.5 V -5.3 to -4.7 V -13 to -11 V +3.3.0 to 3.50 V Less 55 deg C
14.		USB Passive Release: ENABLE	SET	
15.		USB Function: ENABLE	SET	
16.		Save setting and Exit BIOS	SET	

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#	Item	Test	Status	Notes
		menu: YES		
17.	OS	Select <u>Windows NT 4.0</u> from the boot menu.	OK	Windows NT 4.0 is booting up
18.	Keyboard PS/2	Press WINDOWS key, verify opening of windows. Use other keys to verify proper operation	OK	
19.	Mouse PS/2	Move mouse	OK	
20.	Ethernet – 100MB connection	Perform CMD – IPCONFIG test. Verify display IP properties	OK	
21.	Floppy	Put Floppy diskette in the FDD. Open My computer and navigate to the FDD.	OK	
22.	CD/DVD IDE	Put CD in the DVD. Open My computer and navigate to the CD.	OK	
23.	COM1 and COM2	Perform communication test between COM 1 and COM2	OK	Use RS232 D9 F-F cross cable
24.	Memory size	Right click on My computer. Select properties. Memory size: 128 MB or 256 MB according to the configuration	OK	261,556 KB
25.	Reboot the computer	Reboot the computer from windows menu.	-	-
26.	CPU type and speed	While computer is booting verify: CPU: Pentium III, 750E MHz, spec: SL52R or similar	OK	While booting, according to the configuration. <b>Multiplier 7.5</b>
27.	OS	Select <u>Windows XP</u> from the boot menu.	OK	Windows XP is booting up
28.	Run HWINFO32 software	Select the following parameters to be tested:	OK	
29.	CPU type	CPU type: Pentium III-1000MHz CPU S-Spec: SL52R	OK	According to the configuration <b>Multiplier 7.5</b>
30.	Memory type and size	Memory size and type: According to configuration: 1 x 128MB or 2 x 128MB or 1 x 256MB	256MB OK	
31.	MAC address	Identification of the board by the Ethernet MAC address	info	00-08-9B-48-B7-76

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#	Item	Test	Status	Notes
32.	CPU temperature	Verify that the CPU temperature after 1 hour is less than 75 deg.	OK	
33.	CPU Cooling Fan	Verify that the FAN is rotating and there is air blow	OK	
34.	USB 1	Connect USB mouse to USB1 and check proper operation	OK	
35.	USB 2	Connect USB mouse to USB2 and check proper operation	OK	

Checked by: Dan Gilboa

Date: 11 March 2012