

# Tested Obsolete Computer Parts

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ATP\_ATR\_SBC\_ROCKY-3701V2.0\_SN\_C010096035\_



## Acceptance Test Procedure

### And Results (ATP + ATR)

for

### Single Board Computer

Manufacture model: ROCKY-3701 V2.0

Serial Number: C010096035

#	Name	Date	signature
Written by	Dan Gilboa	28 March 2012	DG
Checked by	Dan Gilboa	28 March 2012	DG
<b>Customer</b>			
<b>Order no.</b>			
<b>Tested Date</b>	<b>28 March 2013</b>		
<b>Gilboa Engineering Consulting LTD</b>			

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## 1. Summary

- a. The ROCKY-3701 V2.0 is legacy Industrial SBC made by IEI/ICP
- b. BIOS Version: it is written 2.1 on the board. It was upgraded by IEI official distributor to 2.3 (the one that the board bought from).
- c. CPU: according to the Quick Installation guide for ROCKY-3701 V2.1 : Intel 66/100/133MHz FSB CPU , support Intel Celeron® up to 500 MHz, Pentium III ( FC-PGA ) 866 MHz ( or Above ) Processor.
- d. According to our tests:
  - i. With CPU Pentium III, 1000MHZ, spec: SL52R. The SBC was not stable. After restart commend, the SBC was not booting, after few minutes the OS was stacking. Sometimes the SBC was not booting at all.
  - ii. With CPU Celeron 700MHz. The SBC is stable and working fine in all modes of operations.
- e. Memory: the board is supplied with 2 x 128 MB memory.
- f. The board was tested in DOS shell and Windows XP Pro (SP1) without any problems.
- g. THE BOARD ROCKY-3701 V2.0 SN C010096035 IS FULLY OPERATION.**

## 2. The Single Board Computer (SBC) is assembled from:

- a. SBC of IEI, model "Rocky-3701 V2.0"
- b. CPU of Intel, Celeron 700MHz or similar
- c. Memory of Kingston, Micron Tech or similar: 2 x 128MB, or 1 x 256MB.
- d. CPU Cooling Fan for Socket 370: Dynatron DC1206BM

## 3. 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 (to spate VGA adapter), Keyboard & Mouse, Ethernet cable (to separate Ethernet adapter), HDD-IDE (primary), CD-IDE (secondary), Floppy, RS232-COM1, RS232-COM2, RS232-COM3, RS232-COM4, Parallel.

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- 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 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, COM3 and COM4 connections ( update: in DOS with "CheckIt" software)
- q. Testing CD interface
- r. Testing FDD interface
- s. Verifying operation of the CPU Cooling Fan
- t. Testing Parallel Port (in DOS with "CheckIt" software)

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## Acceptance Test Results

1. SBC PN: ROCKY-3701 V2.0
2. SBC Serial Number: C010096035
3. Visual identification of components

#	Item	PN	Status	SN	Notes
1	SBC	ROCY-3701 V2.0	OK	C010096035	-
2	CPU	Intel, Celeron 700MHz or similar	OK	Q044A622-0285 Spec: SL4P8	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	2 x 128MB Micron or Hyundai Electronics	From CPU-Z software: Row 1: SN: 7V631601BTFG- 75
4	FAN	Dynatron DC1206BM	OK	NA	SN is from the sealed package.
5	SBC	ROCY-3701 V2.0	OK	C010096035	Assembled from the 4 above items

4. Visual inspection of assembled SBC

#	Item	PN	Assembly status	Notes
1	SBC	ROCKY-3701 V2.0	YES	
2	Identification label	-	YES	<b>Warranty label no.:</b>  <b>988604</b>

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## 5. SBC installation and basic connection

#	Item	Connected / Installed	Status	Notes
1.	Jumper 2	Short 1-3 Short 2-4	OK	
2.	Jumper 4	No pins on JP4	info	
3.	Jumper 6	Short 2-3	OK	
4.	Jumper 10	Short 1-2	OK	
5.	Jumper 12	Short 1-2 Short 5-6	OK	
6.	Jumper 14	Short 1-2	OK	
7.	Jumper 15	Short 2-3	OK	
8.	CPU FAN	CPU Cooling FAN: CN16	OK	
9.	SBC	Installed in PC	OK	PC with backplane PCIMG, part number: PCI-14S2. <b>PSU IS OFF</b>
10.	Keyboard PS/2	Connected (CN20)	OK	Connected to Y cable
11.	Mouse – PS/2	Connected (CN20)	OK	Connected to Y cable
12.	HDD IDE	Connected to Primary IDE (CN4)	OK	Installed with Windows DOS and Windows XP OS
13.	CD/DVD IDE	CD – Connected to Secondary IDE (CN5)	OK	
14.	FDD	Connected (CN7)	OK	
15.	Parallel	Connected (CN6)	OK	
16.	COM3	Connected (CN9)	OK	
17.	COM4	Connected (CN8)	OK	
18.	VGA ISA adapter	Install VGA ISA adapter	OK	In the backplane ISA side
19.	Display	Connected to VGA ISA adapter	OK	
20.	Ethernet PCI adapter	Install Ethernet PCI adapter and connect Ethernet cable	OK	In the backplane PCI side

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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>2.3</b>	OK	On the PS/2 connector it is written 2.1
3.	CPU type	CPU type: Celeron 700MHz	OK	According to the configuration
4.	Memory Size	Memory size: 256MB	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.		<b>Select Optimal setting</b>	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 +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
13.		Save setting and Exit BIOS menu: YES	SET	
14.	Checking interface with ISA cards	The VGA card of the computer is ISA one. All operation of the computer is	OK	

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#	Item	Test	Status	Notes
		done though this board.		
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.	Serial Port – COM3	Select Test -> Serial – COM3.	OK	
21.	Serial Port – COM4	Select Test -> Serial – COM4.	OK	
22.	Restart	Restart and boot into XP OS.	OK	
23.	XP OS	Select <u>Windows XP</u> from the boot menu.	OK	Windows XP is booting up
24.	Keyboard PS/2	Press WINDOWS key, verify opening of windows. Use other keys to verify proper operation	OK	
25.	Mouse PS/2	Move mouse	OK	
26.	Floppy	Put Floppy diskette in the FDD. Open My computer and navigate to the FDD.	OK	
27.	CD/DVD IDE	Put CD in the VD/DVD. Open My computer and navigate to the CD.	OK	
28.	Run CPU-Z software	Select the following parameters to be tested:	OK	
29.	CPU type	CPU type: Celeron 700MHz	OK	

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#	Item	Test	Status	Notes
30.	Memory type and size	Memory size and type: According to configuration	256 MB OK	
31.	Checking interface with PCI cards	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

Date: 28 March 2013



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