

Acceptance Test Procedure

And Results (ATP + ATR)

for

Single Board Computer (SBC)

IEI Model: ROCKY-4786EVG

Customer Description: **ROCKY-4786EVG**

Customer Part Number (PN): **TBD**

IEI Serial Number (SN): **SC11726746**

#	Name	Date	signature
Written by	Dan Gilboa	9 April 2015	DG
Checked by	Dan Gilboa	9 April 2015	DG
Customer			
Order no.			
Tested Date	9 th April 2015		

1. The Single Board Computer (SBC) Model ROCKY-4786 is assembled from:
 - a. SBC of IEI, model ROCKY-4786EVG
 - b. CPU of Intel, Pentium 4, 3.2GHz type SL6WG
 - c. Memory of PC3200: 2GB (2 x 1GB)
 - d. CPU Cooling Fan – “CoolJag SAN-H 478” or similar

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 and Memory.
 - d. Applying of thermal grease on the entire of the CPU.
 - e. Assembly of FAN on the CPU.
 - f. Replacing backup battery CR2032.
 - g. Visual inspection of the assembled SBC.
 - h. Installing the SBC in a PC with backplane type PCIMG 1.0, part number: PCI-14S2, or similar.
 - i. Connecting: Display, Keyboard, Mouse, HDD-SATA, CD/DVD-SATA, HDD-IDE, CD/DVD-IDE and USB cables to the SBC.
 - j. Powering the PC (from 220VAC).
 - 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 VGA output
 - o. Testing mouse
 - p. Testing Keyboard
 - q. Testing 4 USB connections
 - r. Testing 100MB/sec Ethernet connection and 1Gb/sec
 - s. Testing COM1, COM2 and Parallel ports
 - t. Verifying operation of the CPU Cooling Fan
 - u. Interface with ISA card
 - v. Interface with PCI card

Acceptance Test Results

1. SBC Model: ROCKY-4786EVG
2. SBC Serial Number: SC11726746
3. Visual identification of components

#	Item	PN	Status	SN	Notes
1	SBC	ROCKY-4786EVG- RS-R41	OK	SC11726746	
2	CPU	Intel, Pentium 4, 3.2GHz type SL6WG or similar	OK	Copied from CPU	Copied from CPU
3	Memory	Kingston PC3200 2GB (2 x 1GB)	OK	Row 0: SN: 3570538088 Row 2: SN: 2781291634	SN is analyzed by HWINFO software.
4	FAN	CoolJag SAN-H 478	OK	NA	CoolJag
5	SBC		OK	SC11726746	Warranty label no.

4. SBC installation and basic connection

#	Item	Connected / Installed	Status	Notes
1	SBC	Installed in PC	OK	PC with backplane PCI-14S2or similar. PSU IS OFF
2	Display	Connected	OK	
3	Keyboard PS/2	Connected	OK	
4	Mouse - USB	Connected	OK	
5	Ethernet	100MB connection (the lower SBC connection, or the single one on ROCKY-4786EV)	OK	For the EVG Version – afterwards the Ethernet cable will be switched to the GbE
6	HDD SATA	Connected	OK	HDD installed with DOS and Windows XP OS
7	CD SATA	CD/DVD	OK	
8	HDD IDE	Connected	OK	
	CD IDE	CD/DVD	OK	
9	Power	12VDC form PC PSU	OK	Verify before PSU is ON
10	COM1 COM2	Connect COM1 and COM2 cables	OK	
11	Parallel	Connect Parallel cable	OK	
12	USB connectors	Connect the Rack USB cables to the SBC USB connectors: USB1, USB2, USB3, USB4	OK	

5. Operation of SBC

#	Item	Test	Status	Notes
1.	PC PSU	Connect power cable to 220VAC and turn ON the PSU.	OK	PC is powering up, showing power up displays
2.	Hit "DEL" and enter BIOS	Verify "PC Health Status" +5VDC +12VDC -5VDC -12VDC Vbat +3.3V System Temperature CPU temperature	OK	+4.7 to +5.3 +10.5 to +13.5 -5.2 to -4.8 -14 to -10 +3.15 to 3.45 Less 60 deg Less 55 deg
3.	OS	Windows XP is powered up	OK	
4.	Keyboard PS/2	Press WINDOWS key, verify opening of windows. Use other keys to verify proper operation	OK	
5.	Mouse – PS/2	Move mouse	OK	
6.	Ethernet – 100MB connection	Perform CMD – IPCONFIG test. Verify display IP properties	OK	MAC address: 00-18-7D-1E-A5-0C
7.	Ethernet – 1GbE connection	Perform CMD – IPCONFIG test. Verify display IP properties	OK	MAC address: 00-18-7D-1E-A5-0B
8.	DVD SATA	Put CD in the DVD. Open My computer and navigate to the DVD.	OK	
9.	CD/DVD IDE	Put CD in the DVD. Open My computer and navigate to the DVD.	OK	
10.	Memory type	DDR 400MHz (PC3200)	OK	While booting
11.	Memory size	While booting: 2GB From HWINF32: Memory type: Kingston Row 0: 1024 MB PC3200 Row 2: 1024 MB PC3200	OK	Row 0: SN: 3570538088 Row 2: SN: 2781291634
12.	CPU type and	Right click on My computer.	OK	Processor ID:

#	Item	Test	Status	Notes
	speed	Select properties. CPU: Pentium 4, 3.2 GHz From HWINFO32 : INTEL Spec: SL6WG		SL6WG (from HWINFO32 software)
13.	USB 1	Use USB mouse to check.	OK	USB1 on SBC board
14.	USB 2	Use USB mouse to check.	OK	USB2 on SBC board
15.	USB 3	Use USB mouse to check.	OK	USB3 on SBC board
16.	USB 4	Use USB mouse to check.	OK	USB4 on SBC board
17.	CPU Cooling Fan	Verify that the FAN is rotating and there is air blow	OK	
18.	Restart into DOS	Restart the computer into DOS shell. Run CHECKIT software	OK	
19.	Serial PORT 1	Run Serial Port 1 Test	OK	Use Serial loopback plug
20.	Serial PORT 2	Run Serial Port 2 Test	OK	Use Serial loopback plug
21.	Shutdown the computer	Power off the computer	Info	
22.	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	
23.	Checking interface with PCI card	Shutdown the computer. Install Ethernet Adaptor PCI type. Power on the computer, boot to Windows XP. Verify that the new hardware is recognized correctly and working.	OK	

Checked by: Dan Gilboa**Date: 9th April 2015**