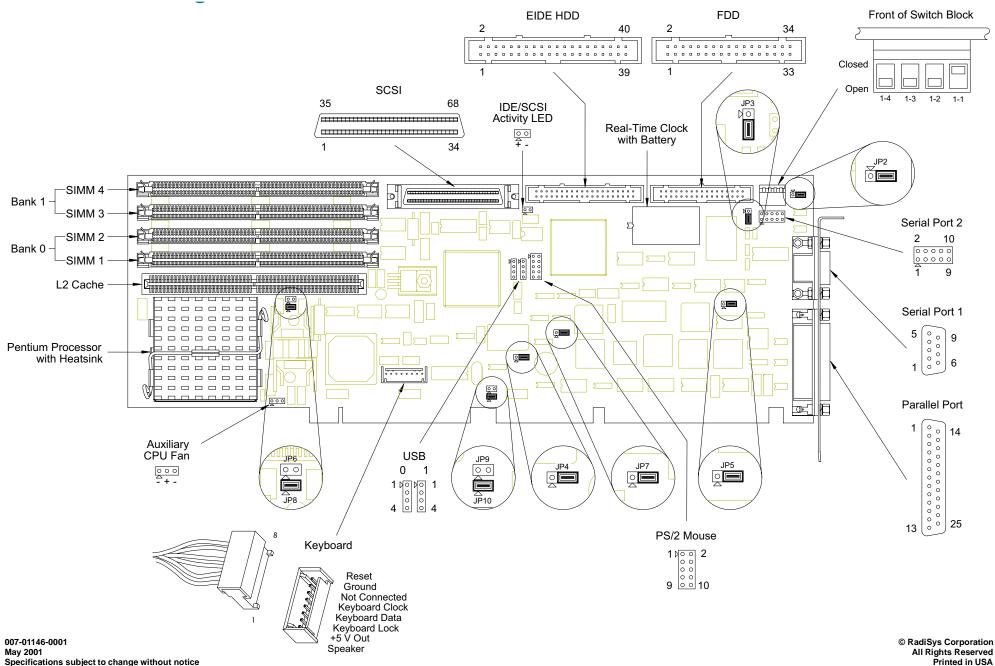


# EPC-2102 SBC (P5000HX2(-M)) Quick Reference Card

This card provides information to help you quickly configure, install, and operate your single-board computer. Keep this card in a convenient location for future use. See the service manual for more detailed information.



## **Technical and Product Support**

#### Accessing the Web Site

In-depth printable service manuals and other documentation are available for download from the RadiSys Web site:

## http://www.radisys.com

Then click on **Support** to access a link to the documentation, drivers, and BIOS. Documentation is available at this Web site in Adobe<sup>®</sup> Acrobat<sup>®</sup> .PDF format and may be viewed and printed using Acrobat<sup>®</sup> Reader<sup>™</sup> software. BIOS files are available as self-extracting disk image files. Links are provided to various partners' web sites where any files and tools needed to install drivers are available for download.

#### Calling Technical Support

RadiSys Corporation provides technical support Monday–Friday, 8:00 a.m.–5:00 p.m. Central Time in the continental USA and 8:30 a.m.–5:00 p.m. in Europe.

To expedite your request, have the RadiSys product model and serial number available. Then call one of the following numbers:

- Inside the continental USA, dial 1-800-627-8700.
- Outside the continental USA, dial 1-713-541-8200 (add long distance/international codes).
- In Europe, dial +31-36-5365595.

#### Inspection of Contents / Packaging of Product

The packaging for this product has been tested to assure that it will withstand responsible handling by the carrier.

Caution: Inspect contents immediately and file a claim with the carrier for any damage. Save the shipping box and packaging material to use for any further shipment of this equipment. However, if the packaging is damaged and is not suitable for shipment, call RadiSys Technical Support to obtain new packaging. The warranty may be void if the product is returned using unapproved or damaged original packaging.

#### **Returning Your Product**

A Returned Material Authorization (RMA) number must be written on the outside of the shipping carton of all equipment returned to RadiSys for service and/or repair. It is recommended that any correspondence included with the carton contents also refer to the RMA number.

**Note:** The factory will refuse the shipment if it is sent freight collect or if it does not display an RMA number.

## **Quick Start**

To begin operating your EPC-2102 single-board computer, perform the following:

- 1. Ensure that all jumper settings match your requirements
- 2. Ensure that all switch settings match your requirements.
- 3. Install the SBC onto a passive backplane in a chassis.
- 4. Attach all necessary peripheral devices to the appropriate headers and connectors on the SBC.
- 5. Power-on the system.
- Run the Setup Utility if you need to change any settings to match your requirements.

Note: See the table "Setup Utility" for factory default settings...



To avoid damage or injury, always exercise the following precautions when handling the equipment:

- Use a grounding wrist strap or other static-dissipating device
- Power-off the system
- Disconnect all power cords

## **Jumper Settings**

JP9	JP10	Host Bus Speed
None	1—2	66.6MHz
1—2	None	60.0MHz
1—2	1—2	50.0MHz

JP6	JP8	Bus Core Ratio <sup>†</sup>	CPU Speed <sup>‡</sup>
None	None	2/3	100 MHz
None	1—2	1/2	133 MHz
1—2	1—2	2/5	166 MHz
1—2	None	1/3	200 MHz
None	None	1/5	233 MHz

JP2,	Serial 2 Configuration	
JP3,	2—3	RS-232
& JP5	1—2	RS-422
	Watchdog Timer	

	N	lext Step OS Configuration
	' -	7.00.00
	1—2	Active
JP4	2—3	Inactive

JP7	2—3	Normal Operation
	1—2	Next Step OS optimization

<sup>†</sup>The Bus Core Ratio is based on the Host Bus Speed at 66.6MHz. <sup>‡</sup>The default CPU speed is determined by the processor installed.

## Switch Settings

Default Monitor Type		
SW1-1	Open	Monochrome
	Closed	Color
	On-Board ROM Access	
SW1-2	Open	Flash memory enabled; auxiliary ROM disabled
	Closed	Flash memory disabled; auxiliary ROM enabled
	CMOS RAM	
SW1-3	Open	Normal operation
	Closed	Factory default CMOS values are loaded
	Configuration Ports	
SW1-4	Open	Map ports to I/O address 270/271
	Closed	Map ports to I/O address 370/371
Default settings are shown in <i>italics</i>		

Floppy Controller Diskette A / B Diskette B / B Diskette B / B Diskette Diskette D Diskette B Diskette D Diskette B Di	Setup Utility		
Diskette A / B Floppy Seek during POST Enabled Floppy Seek during POST Enabled Primary (1F0-1F7h) Auto Detect IDE Drives Enabled Large Disk DOS Compatible Keyboard Typermatic Sound Keyboard Typermatic Rate / Delay 101-Key Keyboard NumLock at Boot Set Boot Drive Sequence Report POST Errors Report POST Errors Enabled Password Option ROM Errors Enabled Password Options Disabled Disabled Password Options Disabled Disabled Disabled Disabled Disabled Password Options Disabled Disab	Setup Item	Default Setting	
Floppy Seek during POST IDE Controller Setup Primary (1F0-1F7h) Auto Detect IDE Drives Enabled Large Disk DOS Compatible Keyboard Typematic Sound Enabled Keyboard Typematic Sound Enabled Keyboard Typematic Rate / Delay 30 chars/sec; 250 msec 101-Key Keyboard NumLock at Boot Disabled Set Boot Drive Sequence Diskette Drive Report POST Errors Enabled Report Option ROM Errors Enabled Report Option ROM Errors Enabled Resword Options Disabled Disabled Password Options Disabled 16550 Compatible UART 1 03F8h IRQ 4 16550 Compatible UART 2 02F8h IRQ 3 Select Parallel Port Address O378h IRQ 7 Parallel Port Mode AT Compatible Serial Redirection Destination Disabled Serial Redirection BAUD Rate Fo6000 External Cache Disabled DRAM Speed 70 ns DMA Aliasing Disabled ECC/Parity Config Parity Memory Gap Block Size Disabled Bolayed Transactions Enabled Sepaker Config Enabled Watchdog Timer Delay 1.2 sec Allocate USB Resources Disabled PCI IRQ Line 2 IRQ 11 PCI IRQ Line 4 IRQ 15 ISQ 1IRQ Line 4 IRQ 15	Floppy Controller	Enabled	
IDE Controller Setup Primary (1F0-1F7h) Auto Detect IDE Drives Enabled Large Disk DOS Compatible Enabled Keyboard Typematic Rate / Delay 30 chars/sec; 250 msec 101-Key Keyboard NumLock at Boot Disabled Set Boot Drive Sequence Diskette Drive Report POST Errors Enabled Report Option ROM Errors Enabled Password Options Disabled Passled Port Address O378h IRQ 3 Select Parallel Port Address O378h IRQ 7 Parallel Port Mode AT Compatible Serial Redirection Destination Disabled DRAM Speed Disabled DRAM Speed To ns DMA Aliasing Disabled ECC/Parity Config Parity Memory Gap Block Size Disabled Delayed Transactions Enabled SP Sy SCLOCK ISA Guaranteed Access Time Disabled Delayed Transactions Enabled Watchdog Timer Delay 1.2 sec Allocate USB Resources Disabled PCI IRQ Line 2 IRQ 10 PCI IRQ Line 2 IRQ 15	Diskette A / B	31/2" 1.44 MB; Not Installed	
Auto Detect IDE Drives Large Disk DOS Compatible Keyboard Typematic Sound Keyboard Typematic Sound Keyboard Typematic Rate / Delay 101-Key Keyboard NumLock at Boot Set Boot Drive Sequence Report POST Errors Report Option ROM Errors Show F2 Message for Setup Large Boot Enable/Disable Disabled Disable	Floppy Seek during POST	Enabled	
Large Disk DOS Compatible Keyboard Typematic Sound Keyboard Typematic Sound Keyboard Typematic Rate / Delay 101-Key Keyboard NumLock at Boot Set Boot Drive Sequence Report POST Errors Report Option ROM Errors Show F2 Message for Setup Quiet Boot Enable/Disable Disabled Password Options Disabled Disa	IDE Controller Setup	Primary (1F0-1F7h)	
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Report Option ROM Errors  Show F2 Message for Setup  Quiet Boot Enable/Disable  Password Options  16550 Compatible UART 1  16550 Compatible UART 2  Select Parallel Port Address  Parallel Port Mode  Serial Redirection Destination  Serial Redirection BAUD Rate  External Cache  Disabled  DRAM Speed  DISABLED  DISABLED  ECC/Parity Config  Memory Gap Block Size  Disabled  Serial I/O Recovery Time  A.5 SYSCLOCK  ISA Guaranteed Access Time  Disabled  Delayed Transactions  Enabled  Speaker Config  Enabled  Watchdog Timer Delay  Allocate USB Resources  Disabled  DI	Set Boot Drive Sequence	Diskette Drive	
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	PCI IRQ Line 3	IRQ 11	
Delay for PCI Config Disabled	PCI IRQ Line 4	IRQ 15	
	Delay for PCI Config	Disabled	
PCI Latency for Bus 0 Devices 0Dh-14h Auto	PCI Latency for Bus 0 Devices 0Dh-14h	Auto	
PCI Cache Line Size Auto	PCI Cache Line Size	Auto	
Onboard PCI SCSI Disabled	Onboard PCI SCSI	Disabled	