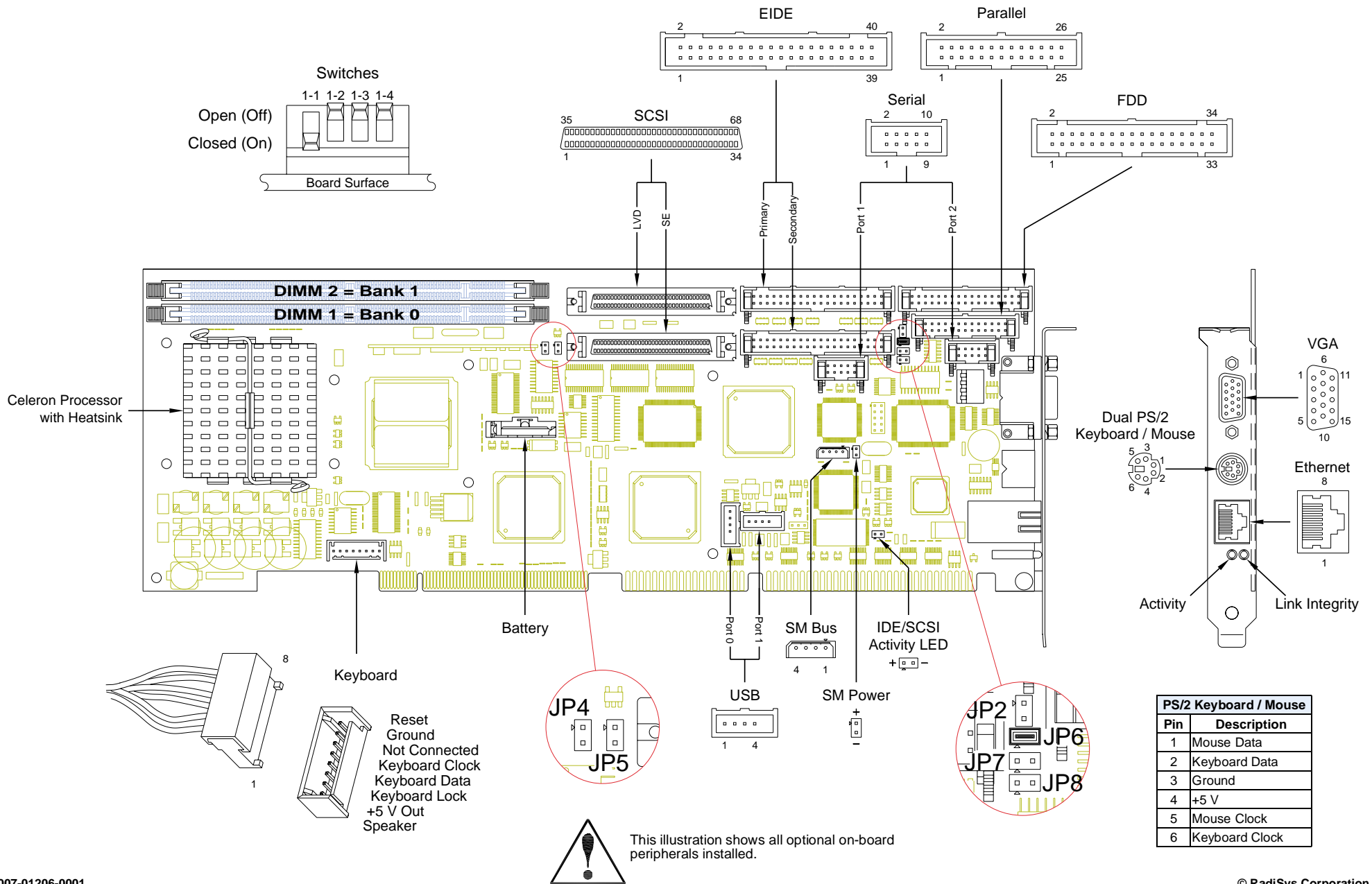# EPC-2221 SBC (P1000BX)   Quick Reference Card

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.

EIDE

2   40

1   39

Parallel

2   26

1   25

Switches

1-1 1-2 1-3 1-4

Open (Off)

Closed (On)

Board Surface

SCSI

35   68

1   34

Serial

2   10

1   9

FDD

2   34

1   33

LVD

SE

Primary

Secondary

Port 1

Port 2

DIMM 2 = Bank 1

DIMM 1 = Bank 0

Celeron Processor
with Heatsink

Battery

Keyboard

Port 0

Port 1

SM Bus

4   1

IDE/SCSI
Activity LED

+ □ □ −

VGA

6
1   11

5   15
10

Dual PS/2
Keyboard / Mouse

5 3
1
6 4
2

Ethernet

8

1

Activity

Link Integrity

8

1

Reset
Ground
Not Connected
Keyboard Clock
Keyboard Data
Keyboard Lock
+5 V Out
Speaker

JP4

JP5

USB

1   4

SM Power

+

−

JP2

JP6

JP7

JP8

This illustration shows all optional on-board peripherals installed.

PS/2 Keyboard / Mouse	
Pin	Description
1	Mouse Data
2	Keyboard Data
3	Ground
4	+5 V
5	Mouse Clock
6	Keyboard Clock

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® Acrobat® .PDF format and may be viewed and printed using Acrobat® Reader™ 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-2221 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.
6. 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

JP2	JP6	JP7	JP8	Serial 2 Configuration
None	1—2	None	None	RS-232 (default)
1—2	None	1—2	1—2	RS-422

JP4	JP5	Single-Ended SCSI Termination
None	None	Low-byte Enabled; High-byte Enabled (default)
None	1—2	Invalid
1—2	None	Low-byte Disabled; High-byte Enabled
1—2	1—2	Low-byte Disabled; High-byte Disabled

Switch Settings

SW1-1		Not Used
SW1-2		**On-Board ROM Access**
	Open/Off	Flash Memory enabled (default)
	Closed/On	Crisis Recovery Mode enabled
SW1-3		**CMOS RAM**
	Open/Off	Normal operation (default)
	Closed/On	Factory default values are loaded
SW1-4		**Configuration Ports**
	Open/Off	Map ports to I/O address 270 — 273 (default)
	Closed/On	Map ports to I/O address 370 — 373

Setup Utility

Note: This table lists all optional on-board peripherals installed.

Setup Item	Default Setting
System Time	*Current (Hours, Minutes, Seconds)*
System Date	*Current (Month, Day, Year)*
Legacy Diskette A	1.44/1.25 MB 3½"
Legacy Diskette B	Disabled
IDE Adapter Type	Auto (all 4 possible drives)
Memory Cache	Enabled
Cache System BIOS Area	Write Protect
Cache Video BIOS Area	Write Protect
Cache Base 0 — 512 KB	Write Back
Cache Base 512 — 640 KB	Write Back
Cache Extended Memory Area	Write Back
Cache C800 — EFFF	Disabled (all regions)
Boot Summary Screen	Enabled
Floppy Check	Disabled
Quiet Boot Screen	Enabled
POST Errors	Enabled
Hard Disk Pre-Delay	3 sec.
Keyboard Numlock	Auto
Key Click	Disabled
Keyboard Auto-Repeat Rate	30/sec
Keyboard Auto-Repeat Delay	1/2 sec
Serial Port A	3F8/IRQ4
Serial Port B	2F8/IRQ3

Setup Utility (continued)

Setup Item	Default Setting
Parallel Port	Bi-Directional, 378, IRQ7
Floppy Disk Base I/O Address	Primary
Local Bus IDE Adapter	Both
ECC Config	EC
Enable Memory Gap	Disabled
DMA Aliasing	Enabled
16-Bit I/O Recovery	4.5
8-Bit I/O Recovery	4.5
Watchdog Timer Status	Disabled
Watchdog Timer Delay	1.2 sec
ISA Bus GAT	Disabled
PCI Delayed Transactions	Enabled
Thermal Duty Cycle	37.5%
PCI IRQ Line 1 — 4	Auto Select (all IRQ lines)
USB IRQ Enable	Yes
Latency Timer	Auto
Cache Line Size	Auto
ISA Graphic Device Installed	No
PCI/PNP ISA UMB Region Exclusion	Available (All regions)
PCI/PNP ISA IRQ Resource Exclusion	Available (All IRQ's)
Embedded AGP VGA	Enabled
Embedded Ethernet	Disabled
Embedded Adaptec SCSI Adapter	Disabled
PS/2 Mouse	Auto Detect
On-board Speaker	Enabled
CPU BIOS Update	Enabled
Plug & Play O/S	No
Secured Setup Configuration	Yes
Reset Configuration Data	No
Large Disk Access Mode	DOS
Password on Boot	Disabled
Fixed Disk Boot Sector	Normal
Diskette Access	Supervisor
Virus Check Reminder	Disabled
System Backup Reminder	Disabled
Power Savings	Disabled
Standby Timeout	Off
Auto Suspend Timeout	Off
Hard Disk Timeout	Disabled
Video Timeout	Disabled
Resume on Modem Ring	Off
Resume on Time	Off
Resume Time	00:00:00 (24-hour format)
Console Redirect Port	Disabled
Console Redirect Baud Rate	9600