RadiSys
THE POWER OF WE

DATASHEET



EPC-2325

PCI/ISA Single Board Computer

FEATURE SUMMARY

- 370-pin PGA socket for Intel® Celeron and Pentium III processors in FC-PGA and FC-PGA2 packages
- Intel® 815 GMCH and C-ICH chipset
- Up to 512MB SDRAM
- Integrated VGA controller
- Dual 10/100 Ethernet ports
- On-board PC speaker
- 12 GPIOs/LCD character display interface
- System management
- Fan control
- Dual watchdog timers
- Power management
- PhoenixBIOS*
- Expansion slot for SCSI module
- PCI/ISA PICMG 1.0 R2.0 compliant
- Peripheral connectivity
  - Video
  - Dual 10/100 Ethernet
  - Dual IDE
  - SCSI (optional)
  - Dual USB
  - Floppy
  - Mouse
  - Keyboard
  - Dual serial
  - Parallel

The RadiSys EPC®-2325/EPC®-2225 is a highly integrated SBC designed to meet a cost target which breaks the traditional pricing model of single board computers. Based on modular designs from proven technologies, it is also designed specifically to meet the demands of the OEM embedded market place where a low cost of ownership is paramount. This is achieved through long lifetime, change management, engineering support and reliability of design and manufacture.

The EPC-2325/EPC-2225 is a fully featured SBC with a wide variety of on-board peripherals. This eliminates the need for additional standard I/O peripheral cards thus enabling the user to maximize the availability of backplane slots.

It offers a scalable platform with a choice of processors ranging from an 850MHz Celeron* up to a 1.26GHz Pentium* III and beyond. This allows users to choose the right price/performance point to suit their application.

An expansion slot provides an interface for an optional LVD SCSI add-on daughter card. This can be used, for example, as an interface for DAT storage devices as well as other SCSI peripherals.

The EPC-2325/EPC-2225 is an ideal, high performance platform for computer telephony, telecommunication and Enterprise applications such as Unified Messaging, Automatic Call Distributor, Interactive Voice Response, Integrated Access Devices, Network Aggregators and IP-based PBX systems.

EPC-2325 Specifications

FEATURE	FUNCTION	DESCRIPTION
Physical	Dimensions	13.33" x 4.80," 339 mm x 122 mm
	Compliance	PCI/ISA PICMG 1.0 R2.0 compliant
Bus Interface	ISA	16-bit 8.33MHz, fully buffered, 64mA drive capability Supports four 32-bit, 33MHz, PCI devices
	PCI	Expansion slot for SCSI module
Processor System	CPU	370-pin PGA socket for Intel® Celeron and Pentium III processors in FC-PGA and FC-PGA2 packages
	Cache	Integrated with the CPU
	Chipset	Intel® 815 GMCH with C-ICH
	FSB	66MHz-133MHz (processor dependent)
Memory	Technology	3.3 V unbuffered, PC133 SDRAM, non-ECC/Parity
	Capacity	Max 512MB
	Sockets	Two 168-pin vertical DIMM
Video	Controller	3D integrated into 815 chipset
	Monitor Support	Analog VGA
Ethernet	Interface	10/100Base-T and 100Base-TX
	Controller	Dual Intel® C-ICH MACs with Intel® 82562ET PHYs
Hard Drive Interface	Interface	Two Ultra ATA/100 channels
	Controller	Intel® C-ICH
SCSI Interface (Optional)	Interface	Single channel Ultra160 LVD SCSI
	Controller	Adaptec 7892X
Floppy	Interface	Standard floppy
I/O Bracket	CRT	One 15-pin VGA D-sub connector
	Ethernet	Two RJ-45 connectors with activity LED's
	Mouse/Keyboard	One 6-pin PS/2 mini DIN connector (shared)
Additional I/O	Floppy	One 34-pin header
	IDE	Two 40-pin headers
	Keyboard or Mouse	7-pin header
	SCSI (optional)	One 68-pin high density connector
	USB	Two 5-pin friction lock headers
	Serial Port	Two 10-pin headers
	Parallel Port	One 26-pin header
	IrDA	Via front panel connector (shared with COM2)
	GPIO	12 lines via 20-pin header (supports a character-based LCD panel)
	SMbus	4-pin header
	LAN Leds	One 11-pin header for external LEDs
	Port80	One 30-pin diagnostic header
Drivers	Intel® C-ICH	Windows NT* 4.0, Windows NT Embedded, Windows* XP, Windows XP Embedded, Windows* 2000, Linux*
	SCSI	MS-DOS, Windows NT 4.0, Windows 2000, Windows XP, Linux
Miscellaneous	System Monitoring	Supply voltage, battery voltage, temperature, fan speed
	Fan Control	Control up to three fans (1 CPU and 2 system fans)
	Real Time Clock	Compatible with MC146818B
	Watchdog Timer	Two programmable independent timers (250ms-180 minutes)
	BIOS	PhoenixBIOS 4.0 Release 6.0
	Audio	On-board mini-speaker for status and diagnostic beep codes
	PSU	Soft- and hard- switched PSU support
	Power Management	ACPI 1.0b, APM 1.2

Environment		Operating	Non-Operating
	Temperature	0°C to 55°C	-40°C to 85°C
	Humidity	5% to 95% @ 40°C non-condensing	5% to 95% @ 40°C non-condensing
	Shock	1g for 10ms	30g for 10ms
	Vibration	0.25g @ 5-150Hz	5g @ 5-150 Hz
	Altitude	15,000 ft (4,572 m)	50,000 ft (15,240 m)
Regulatory	Safety	Designed for compliance with UL60950 and IEC60950	
	EMC	Designed for compliance with EN55022, EN55024 and FCC Part 15 Class B	
Warranty	-	Two year, parts only	

Ordering Information

Toll-Free: 800-950-0044
Phone: 503-615-1100
Support: 866-385-6167

Call for pricing and availability. Refer to the order codes below.

DESCRIPTION:

With 850MHz Celeron, 0MB SDRAM and fansink
ORDER CODE: EPC2225-850-0

With 866MHz Pentium III, 0MB SDRAM
ORDER CODE: EPC2325-866-0

With 866MHz Pentium III, 0MB SDRAM and SCSI module
ORDER CODE: EPC2325S-866-0

With 1.26GHz Pentium III, 0MB SDRAM and SCSI module
ORDER CODE: EPC2325S-126-0

With 866MHz Pentium III, 0MB SDRAM, no SCSI
ORDER CODE: EPC2325-866-0

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