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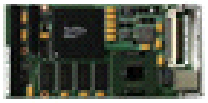
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Find the *RadiSys EPC-6315-800-512* at our website: ***Click HERE***

RadiSys

DATASHEET



FEATURE SUMMARY

- Low Profile module
- Ideal for ultra dense applications
- Industry standard PrPMC form factor

[Print This Datasheet]

EPC-6315

Pentium III PrPMC Module

The EPC®-6315 Processor PCI Mezzanine Card (PrPMC) family is a set of powerful new "Macro Components" that utilizes the density and performance of the RadiSys 82600 integrated chipset to bring an Intel® Architecture processor into ultra-dense form factors. The EPC-6315 offers OEMs a standard module to easily customize and upgrade designs and reduce time to market.

Traditionally, embedded computing architectures would place the processor on a baseboard and use small mezzanine boards to add specialized I/O for specific applications. While this approach extended the life of the investment in the processor board design it made upgrades of the processing function difficult and time consuming. Today, applications with complex I/O require a reversed approach that places the processor on the mezzanine card and the I/O interfaces on the baseboard. This approach extends the life of the I/O and allows simplified upgrading of the processor section as this technology evolves.

For ultra-dense applications demanding a very high performance IA processor, the EPC-6315 offers an 800MHz Pentium* III processor with up to 512MB of on-board SDRAM. For applications requiring less power and performance the EPC-6315 is also offered with 650MHz and 400MHz Celeron* processors. To maximize data integrity and reliability, the EPC-6315 also features ECC protection of the memory with single error correction and double error detection capability. For maximum flexibility the EPC-6315 leverages the dual mode PCI-to-PCI bridge capability of the RadiSys 82600 integrated chipset to automatically configure the bridge based on the strapping of the slot on the baseboard. This capability allows the EPC-6315 to become a Monarch PrPMC and provide PCI bus enumeration and service interrupts on the PCI bus or a Non-Monarch PrPMC and function as a PCI based auxiliary processor.

The Jn1 and Jn2 connectors of the EPC-6315 provide a 32-bit 33/66MHz interface to the PCI bus on the base board as well as providing power and ground. A full set of I/O is provided through the optional Jn4 connector. This I/O includes EIDE, COM and Keyboard interfaces. To simplify network connections, the 10/100 BaseT Ethernet connector is available on the front panel. With the ability to accept a type I Compact Flash device, the EPC-6315 can be a completely self-standing processor in any application.

The EPC-6315 provides a complete CPU and memory subsystem in a compact, rugged, industry standard form factor. It isolates the complexities of high speed CPU and memory from application specific I/O intensive baseboards enabling OEMs to focus on their application specific requirements while simplifying product development and upgrades.

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EPC-6315 Specifications

FEATURE	FUNCTION	DESCRIPTION	
BOARD STYLE		Processor PMC	
CPU	Processor	400MHz ULV Celeron or 800MHz Pentium III processor-M	
CACHE	L2 Cache	256KB for the Celeron or 512KB for the Pentium III	
PCI CHIPSET	-	RadiSys 82600	
SYSTEM MEMORY	Size	256MB or 512MB of PC-100 or PC-133 SDRAM with ECC	
SYSTEM BIOS	BIOS Type	PhoenixBIOS* with 4MB flash	
	Special Features	PCI 2.1 compliant; IDE drive autoconfigure; DMI support	
INTEGRATED PCI IDE	-	Integrated in the RadiSys 82600	
	Number of Devices	One channel, two IDE devices	
	Compact Flash	On-Board Type I Compact Flash socket	
	Mode	Ultra DMA 66 capable	
INTEGRATED SUPER I/O	Controller	Integrated in the RadiSys 82600	
	Serial Port	Async, RS-232C, with send/receive 16-byte FIFOs; meets electrical specification of EIA/TIA-232-E	
	Keyboard Controller	8042-compatible	
RTC	Real Time Clock	Accurate to +-13 minutes/yr, battery backup connections via Jn4 only	
ETHERNET	10/100BaseT	Intel® 82559 for 10/100Mbit Ethernet	
CONNECTORS, FRONT PANEL	Ethernet	One RJ-45 Ethernet connector (for 10/100BaseT)	
	Compact Flash	One slot for Compact Flash	
CONNECTIONS, JN1 AND JN2	Processor PMC	32-bit, 66MHz capable PCI interface	
	Standard	Complies with VITA32-199X Draft 0.41	
CONNECTIONS, JN4	I/O Connections	EIDE, COM, Keyboard	
WATCHDOG TIMER	-	A retriggerable one-shot WDT with a programmable reset interval ranging from 1 millisecond to 2048 seconds (about 34.13 minutes)	
ENVIRONMENT	Operating Temperature	0° C-50° C with 200 LFM airflow	
POWER REQUIREMENT	Model	Typical	Maximum
	EPC6315-800-512	17W	21.0W
	EPC6315-650-512	14W	16.5W
	EPC6315-800-256	15.5W	20W
	EPC6315-650-256	12.5W	15.6W
	EPC6315-400-256	8W	10.6W

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Ordering Information

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

PrPMC with 800MHz Pentium III Processor-M and 512MB memory
ORDER CODE: EPC6315-800-512-R

PrPMC with 800MHz Pentium III Processor-M and 256MB memory
ORDER CODE: EPC6315-800-256-R

PrPMC with 400MHz ULV Celeron Processor and 256MB memory
ORDER CODE: EPC6315-400-256-R

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