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The EPC®-6320 and EPC®-6321 are the newest additions to the RadiSys Processor PMC (PrPMC) family, a family of powerful building blocks that enable OEMs to easily upgrade and customize their designs. These boards are ideal for processor offload and control processor applications in the Enterprise and Service Provider markets.

The EPC-6321 provides PICMG 2.15 compatibility with Dual Gigabit Ethernet through the Jn4 connector. The PICMG 2.15 standard enables interoperability with cPCI 2.16 and ATCA carrier boards to standardize a switch-fabric architecture within a modular system.

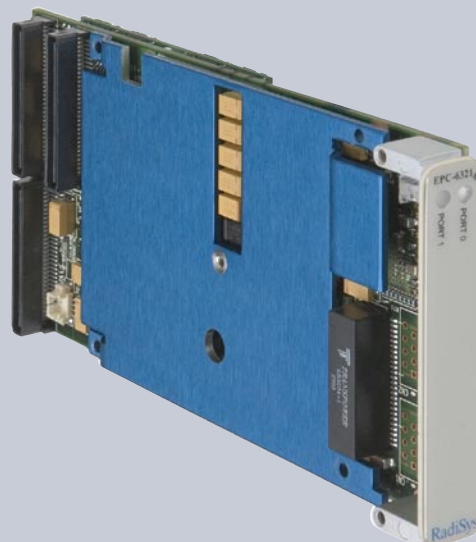
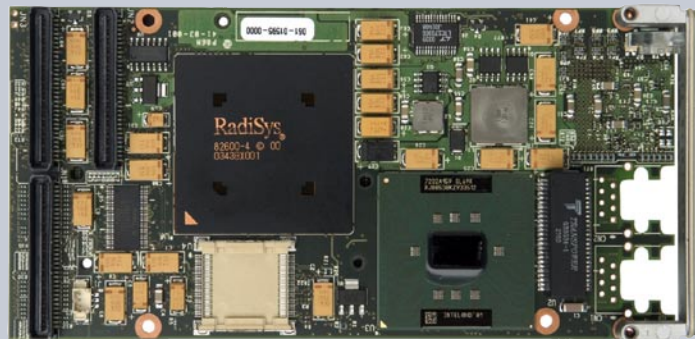
The 6320 differs from the EPC-6321 by providing a legacy Jn4 pin-out to the EPC-6315 for legacy EPC-6315 users.

The EPC-6320 and EPC-6321 provide a complete CPU and memory subsystem in a compact rugged, industry-standard form factor - enabling OEMs to focus on their application.

## FEATURE SUMMARY

- 933MHz Intel® Pentium® III based PrPMC
- 1GB and 512MB Memory Options
- Dual Gigabit Ethernet
- PICMG 2.15 Compatibility on EPC6321
- 74mm x 149mm streamlined PrPMC form factor
- One Channel IDE
- COM, Keyboard
- System Monitoring, Watchdog Timer
- Safety and EMC Compliance
- VxWorks support

The EPC-6320 and EPC-6321 feature 933MHz Intel® Pentium® III processor performance, 512MB or 1GB Memory with ECC protection, and dual Gigabit Ethernet. In addition, the RadiSys 82600 integrated chipset allows the EPC-6320/21 to become a Monarch or Non-monarch PrPMC by automatic configuration based on the strapping of the slot on the baseboard.



## SPECIFICATIONS

FEATURE	FUNCTION	DESCRIPTION	
Board Style	PrPMC Form Factor	74mm(W) x 149mm(L) x 6.5mm (H)	
CPU	Processor	933MHz Pentium III processor	
Cache	L2 Cache	512KB	
PCI Chipset	-	RadiSys 82600 chipset	
System Memory	Capacity	512MB or 1GB of PC-133 SDRAM with ECC	
System BIOS	BIOS Type	PhoenixBIOS 4.0, Release 6.0 with 4MB of Flash	
	Special Features	PCI 2.1 compliant, IDE drive autoconfigure	
Integrated PCI IDE	Number of Devices	One channel, Two IDE devices	
	Modes	Ultra DMA 66 capable	
Integrated Super I/O	Controller	RadiSys 82600 chipset	
Ethernet	10/100/1000BaseT	Intel® 82546 Dual Gigabit Ethernet Controller	
Front Panel	EPC-6321	RJ45 connector for Port 1, Port 2 activity LED	
Connectors	EPC-6321	Port 1 and Port 2 activity LEDs	
Jn1 and Jn2	PrPMC Standard	32-bit, 66MHz capable PCI Interface, complies with VITA32-199x Draft 0.41	
Jn3 and Jn4	EPC-6321	Dual Gigabit Ethernet, EIDE, COM, Keyboard	
	EPC-6320	EIDE, COM, Keyboard	
Watchdog Timer	-	A retriggerable one-shot WDT with a programmable reset interval ranging from 1ms to 2048s (~34.13 minutes)	
Environment	Operating Temperature	Operating temperature 0°C to 50°C with 200LFM airflow	
		Relative Humidity 5% to 95% non-condensing	
Power Requirement	-	Typical	Maximum
	EPC6320-933-512	19W	23W
	EPC6321-933-512	19W	23W
	EPC6320-933-1GB	21W	26W
	EPC6321-933-1GB	21W	26W

## ORDERING INFORMATION

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

### DESCRIPTION:

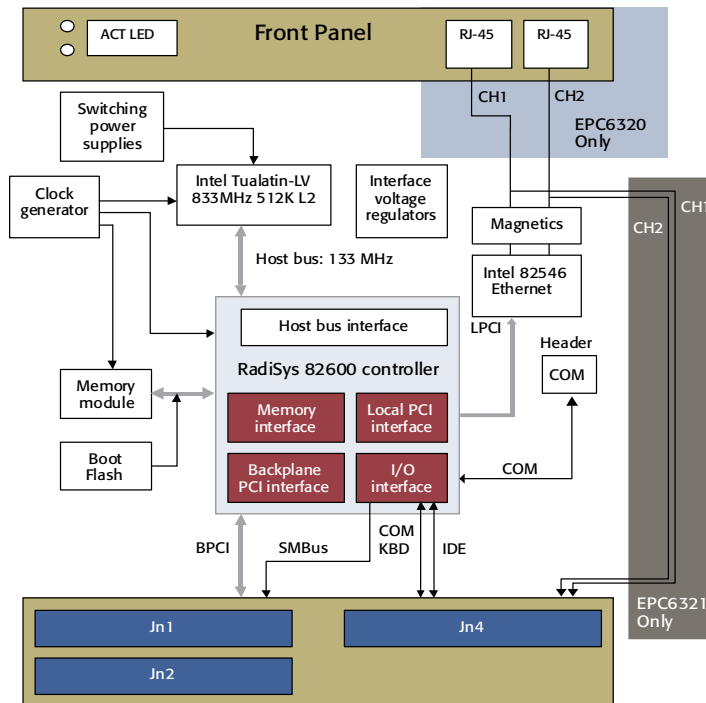
933MHz Pentium III Processor and 512MB Memory, PICMG 2.15 compatible  
**ORDER CODE: EPC6321-933-512**

933MHz Pentium III Processor and 1GB Memory, PICMG 2.15 compatible  
**ORDER CODE: EPC6321-933-1G**

933MHz Pentium III Processor and 512MB Memory, legacy EPC6315 Jn4  
**ORDER CODE: EPC6320-933-512**

933MHz Pentium III Processor and 512MB Memory, legacy EPC6315 Jn4  
**ORDER CODE: EPC6320-933-1G**

## EPC-6320/EPC-6321 BLOCK DIAGRAM



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THE POWER OF WE

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