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Find the *RadiSys EPC-6320N* at our website: ***Click HERE***

RadiSys
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# EPC-6320/EPC-6321 DATA SHEET

PROCESSOR PMC FAMILY

## 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

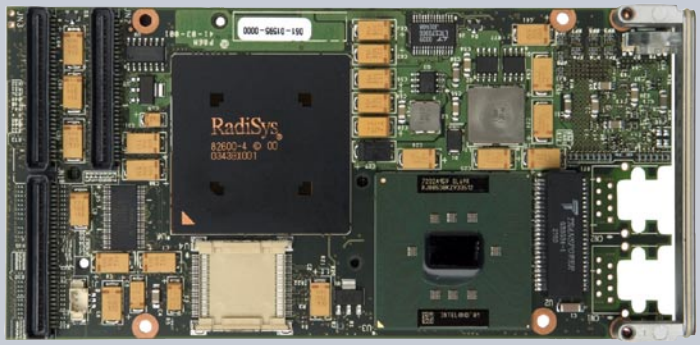
The EPC®-6320 and EPC®-6321 are the newest additions to the RadiSys Processor PMC (PrPMC) family, a family of powerful building blocks that enable OEMs to easily upgrade and customize their designs. These boards are ideal for processor offload and control processor applications in the Enterprise and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

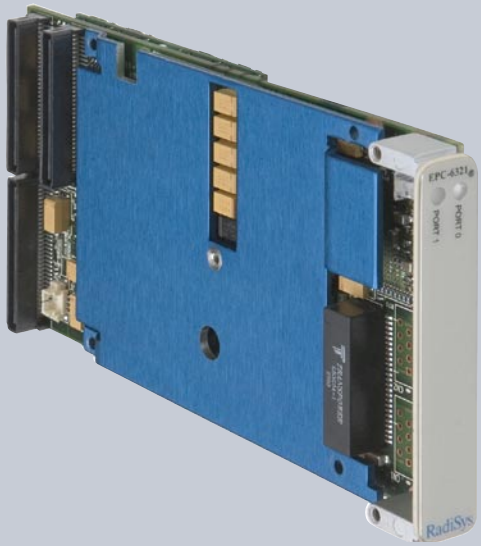
The EPC-6320 and EPC-6321 feature 933MHz Intel® Pentium® III processor performance, 512MB or 1GB Memory with ECC protection, and dual Gigabit Ethernet. In addition, the RadiSys 82600 integrated chipset allows the EPC-6320/21 to become a Monarch or Non-monarch PrPMC by automatic configuration based on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

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.






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## 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:

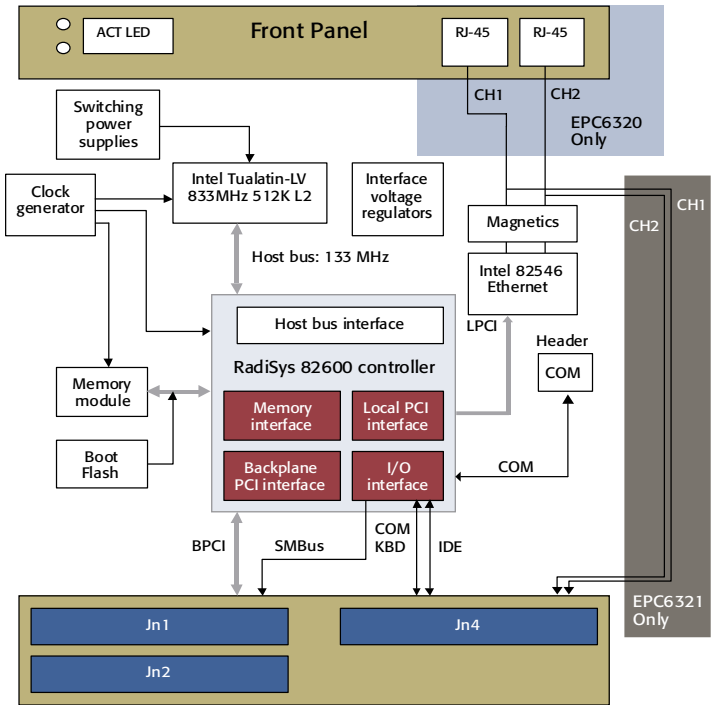
933MHz Pentium III Processor and 512MB Memory, PICMG 2.15 compatible
**ORDER CODE: EPC6321-933-512**

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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RadiSys
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*World Headquarters*
*5445 NE Dawson Creek Drive*
*Hillsboro, OR 97124 USA*
*Phone: 503-615-1100*
*Fax: 503-615-1121*
*Toll-Free: 800-950-0044*
www.radisys.com
info@radisys.com



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