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Find the *Emerson / Motorola PrPMC1100EA-1* at our website: *Click HERE*

Product Overview

PrPMC1100

XScale Processor PMC

MOTOROLA
intelligence everywhere™

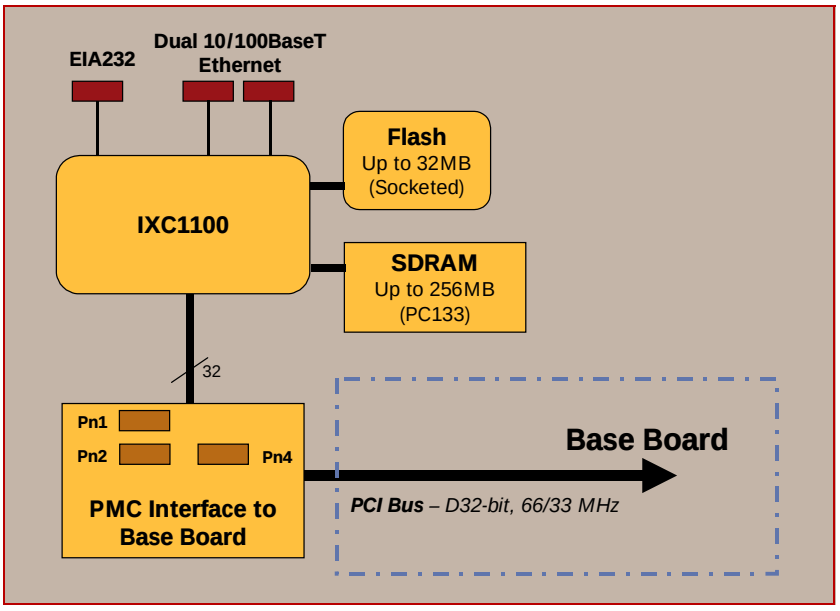
Standard Features

- IXC1100 processor
  - Up to 533 MHz
  - Popular ARM-based XScale processor for control plane
- Integrated memory controller
  - Up to 256MB SDRAM
- Non-volatile storage
  - Up to 32MB Flash
- Integrated PCI bridge
  - Compact 32-bit, 66/33 MHz PCI bus
- Dual 10/100BaseT Ethernet
  - Defacto standard for many telecom applications
- Ultra low power
  - Less than 5W typical
- Standard height
  - Maximum computing density
- Single-wide module
  - Small size fits most applications
- VITA 32 compatible
  - Standards-based for long life

Optional Features

- PMC front panel or rear Pn4 serial and Ethernet I/O
- VxWorks support
- Real-time Linux support

Intel's new IXC1100 processor is a highly integrated system-on-a-chip (SOC) designed to provide telecommunications equipment manufacturers (TEMs) with greater design flexibility, shortened development cycles and rapid response to changing equipment requirements. The PrPMC1100 uses this SOC processor to expand processor PMC support to the ARM-based XScale processor core. This combination provides the performance, upgrade flexibility and low power consumption necessary to meet the processing needs of multi-service switches, voice over IP (VoIP) media gateways, wireless infrastructure and other telecommunications equipment. As service providers and network operators place increasing emphasis on the quick and cost-effective deployment of new revenue-generating services, the PrPMC1100 provides the perfect macro-component to develop and deploy rapid time-to-market solutions.



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SPECIFICATIONS

Control Plane Processor

Intel XScale IXC1100; up to 533 MHz
- Integrated PCI v2.2 32-bit, 66/33 MHz
- Dual 10/100BaseT Ethernet ports
- UARTS/timers/GPIO/interrupt controller
- PCI and Ethernet DMA controllers
- ARM Architecture V5TE compliant
- L1 Cache: 32K instruction; 32K data w/2K mini data cache

Memory

PC133 SDRAM; up to 256MB soldered

IEEE P1386.1 Interface

Address/Data:	A32/D32, PMC Pn1, Pn2, optional Pn4
PCI Bus Clock:	66/33 MHz
Signaling & Power:	3.3V input and output; 3.3V power
Height:	13.5 mm from top of carrier board (one slot)
Operating Modes:	Monarch and non-Monarch support
Module Type:	Single-wide

Front Panel I/O - Optional

- One RJ-45 connector for simple serial debug
- Two RJ-45 connectors for dual 10/100BaseT Ethernet
- Two LEDs; one status LED per Ethernet port

Rear I/O - Optional Pn4

- Simple serial debug
- Dual 10/100BaseT Ethernet
- JTAG
- 16 GPIO signals

Software

Optional VxWorks or real-time Linux

Power

Less than 5W typical

Miscellaneous

Optional JTAG

Environmental

	Operating	Nonoperating
Temperature:	0° C to +55° C, forced air cooling	–40° C to +85° C
Humidity (NC):	10% to 90%	10% to 90%
Vibration:	0.5 G RMS, 20–2000 Hz random	6 Gs RMS, 20–2000 Hz random

Electromagnetic Compatibility (EMC)

Intended for use in systems meeting the following regulations:

U.S.: FCC Part 15, Subpart B, Class A (non-residential)

Canada: ICES-003, Class A (non-residential)

Motorola Computer Group board products are tested in a representative system to the following standards, results pending:

CE Mark per European EMC Directive 89/336/EEC with Amendments; Emissions: EN55022 Class A; Immunity: EN55024

Ordering Information

PrPMC1100EA-1	533 MHz IXC1100, 32MB Flash, 256MB SDRAM, front panel I/O, no Pn4
PrPMC1100EA-2	533 MHz IXC1100, 32MB Flash, 256MB SDRAM, Pn4 I/O, no front panel

Support Products

PrPMC-Carr-0000	Processor PMC Carrier for Monarch PrPMC1100 plus four target PMC sites, ATX-like footprint, ATX power supply compatible. Must be ordered with PrPMC1100EA-1 or -2.

Motorola Computer Group Regional Offices

NORTH AMERICA: Tempe, AZ 800-759-1107 or 602-438-5720

EUROPE: Loughborough, UK +44 1509 634300

EAST MEDITERRANEAN: Tel Aviv, Israel +972 3 568 4388

ASIA: Shanghai, China +86 21 5292 5693

PACIFIC RIM: Tokyo, Japan +81 3 5424 3101

ASIA/PACIFIC: Hong Kong +852 2966 3210

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