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Find the *Extreme Engineering Solutions XPort1000* at our website: *Click HERE*

# XPort1001

## Multi-Protocol Four Port Serial PMC (PrPMC) Module Based on the MPC8260 PowerQUICC II™ Series

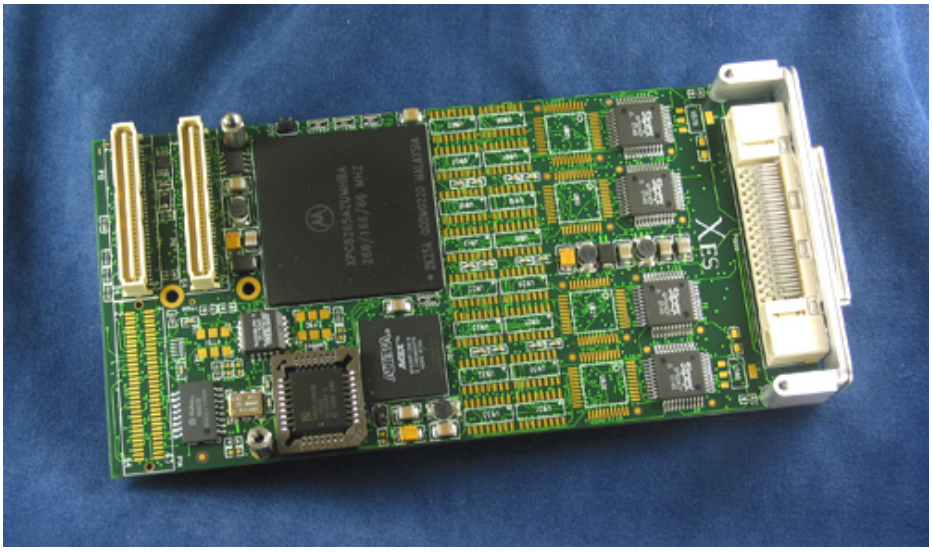


### Features

- MPC8250 At Up To 300MHz with Integrated PCI
- Four SCCs Support a Range of Serial Protocols
- Software Configurable Serial Interface Modes
- Front or Rear I/O
- 8-256MB SDRAM
- 4-16MB Soldered Flash
- 512KB Socketed Flash
- 2 KB SEEPROM
- Two RS-232 SMC Ports
- Optional Back Panel 10/100Mbps Ethernet
- VxWorks Driver and BSP
- Linux LSP

### Typical Applications

- LAN/WAN Networking
- Telecommunication Management Network
- Data and Legacy System Communications
- Data Acquisition
- Process Control



XPort1001 is an intelligent or non-intelligent communications controller targeting low cost, yet high performance applications. XPort1001 combines an array of supported serial protocols, a broad range of serial interface standards, and a flexible I/O routing structure to pack maximum flexibility into an industry standard PMC module.

Powered by the MPC8250 (PowerQUICC II™), the XPort1001 features an optional core-disable mode for operation as a low-cost non-intellegent solution. XPort1001 implements four serial communication ports providing a 7-wire signal set including essential data, clocks and RTS, CTS and DCD flow control. Built in HDLC/SDLC, UART, transparent and BISYNC modes, with NRZ, NRZI, FM0, FM1, Manchester and Differential Manchester encoding, and coupled with software configurable support for RS-232, RS-422, RS-423, and RS-485, the XPort1001 provides a plethora of serial options.

As a system designer, XPort1001 will help drive both cost and power consumption out your system. Because the PCI bridge is integrated on chip, XPort1001 draws up to 40% less power, and costs up to 30% less than conventional designs based on other processors.

X-ES

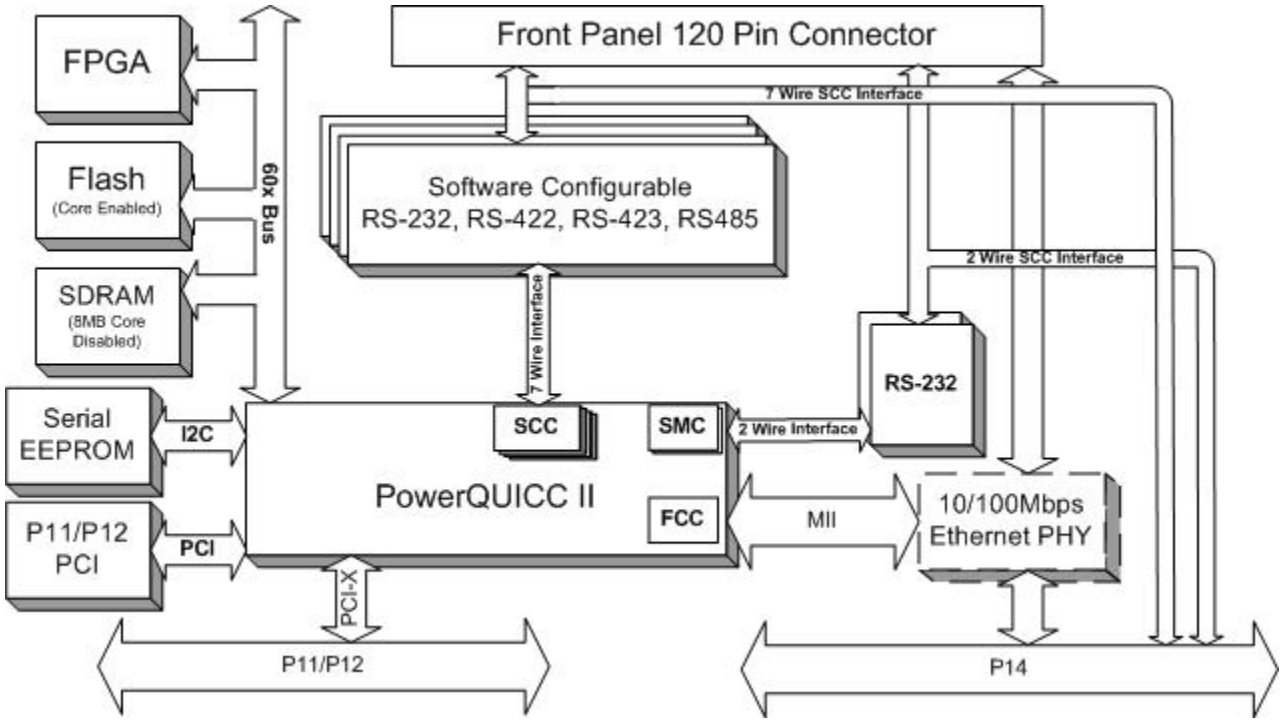
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For more information on XPort1001:
Visit: http://www.xes-inc.com/
Call: 608-833-1155
E-mail: sales@xes-inc.com

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# Block Diagram

# XPort1001




### Processor

- MPC8250 PowerQUICC II
- Embedded PowerPC G2 Core
- 133-300Mhz
- 280 Dhrystones at 200Mhz
- 66MHz 60x Bus
- 16KB Instruction and Data Caches
- 32KB internal SRAM
- Integrated MMU
- Integrated Floating Point Unit
- Core Disabled Mode supported

### Memory

- 32-256MB SDRAM
- SDRAM doubles as 0, 2, or 8MB of buffer storage in Core Disabled Mode
- 4-16MB Surface Mount Flash
- 512KB Socketed Flash
- 2 KB Serial EEPROM

### Serial Communication Controller

- HDLC, UART, Transparent and BISYNC modes
- DPLL supporting NRZ, NRZI, FM0, FM1, Manchester and Differential Manchester
- Independent BRG's for each SCC transmitter and receiver
- Optional External Custom Oscillators

### Serial Interface

- Drivers Software Configurable for RS-232, RS-422, RS-423, RS-485
- 10Mbps Max Synchronous
- 4Mbps Max Asynchronous
- DTE/DCE Cable Selectable

### Software

- VxWorks BSP
- SCC, SMC and Ethernet Drivers
- Linux LSP

### Physical

- PMC Form Factor
- 149mm x 74mm
- 10mm Stacking Height

### Power Requirements (Typical)

- +3.3V 0.60A 1.98W
- +5.0V 0.25A 1.25W
- +12.0V 0.012A 0.14W
- -12.0V 0.012A 0.14W

### Operating Temperature

- 0 to +55C ambient, at board

### Humidity

- 0% to 85%

### Storage Temperature

- -40 to +70C

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