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

XPort1002

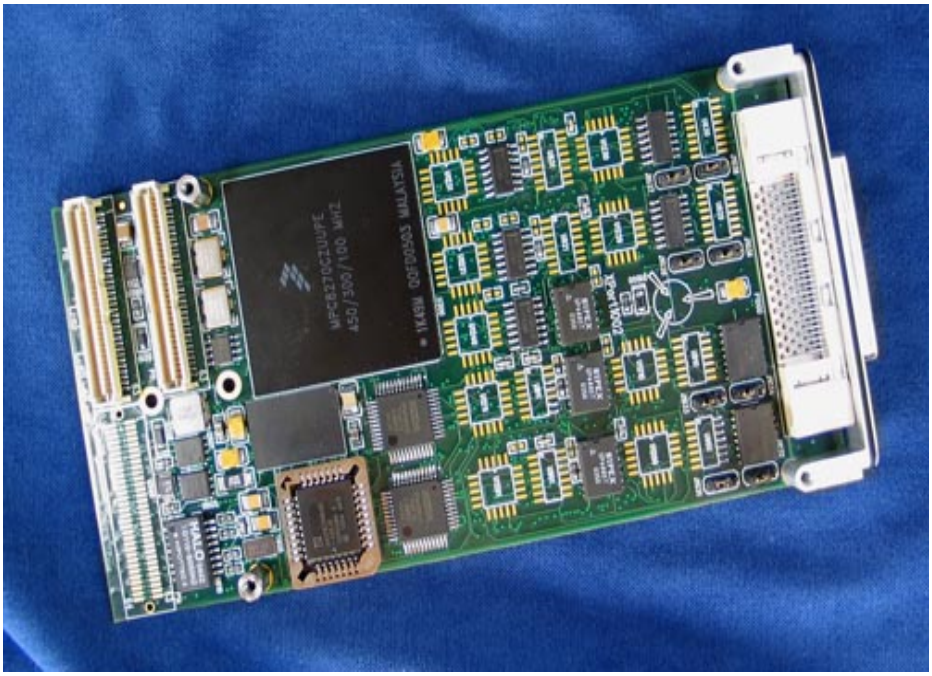
Multi-Protocol Four Port Serial PMC Module Based on the MPC8280 PowerQUICC II™ Series

Features

- MPC8270 At Up To 450MHz with Integrated PCI
- Four SCCs Support RS-232 or RS-422/RS-485
- Front or Rear I/O
- Optional Digital Rear I/O for RTM support
- 32-256MB SDRAM
- Two SMCs Support RS-232
- VxWorks Driver and BSP
- Linux LSP

Typical Applications

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



XPort1002 is a high performance communications controller targeting low cost applications. XPort1002 combines an array of supported serial protocols and a flexible I/O routing structure to pack maximum versatility into an industry standard PMC module.

Powered by the MPC8270 (PowerQUICC II™), XPort1002 implements four serial communication ports providing a seven wire signal set (TXD, RXD, RTS, CTS, DCD, TXC, RXC) supporting either RS-232 or RS-422/RS-485 on a per port basis. XPort1002 supports HDLC/SDLC, UART, Transparent and BISYNC modes, along with NRZ, NRZI, FM0, FM1, Manchester and Differential Manchester encoding. Coupled with support for two RS-232 serial management ports, XPort1002 provides a wide range of serial options.

As a system designer, XPort1002 will help drive both cost and power consumption out your system. Because the PCI bridge is integrated on chip, XPort1002 draws up to 40% less power, and costs up to 30% less than conventional designs based on other processors. The XPort1002 is available in both commercial (0 to +55C) or industrial (-40 to +85C) versions.

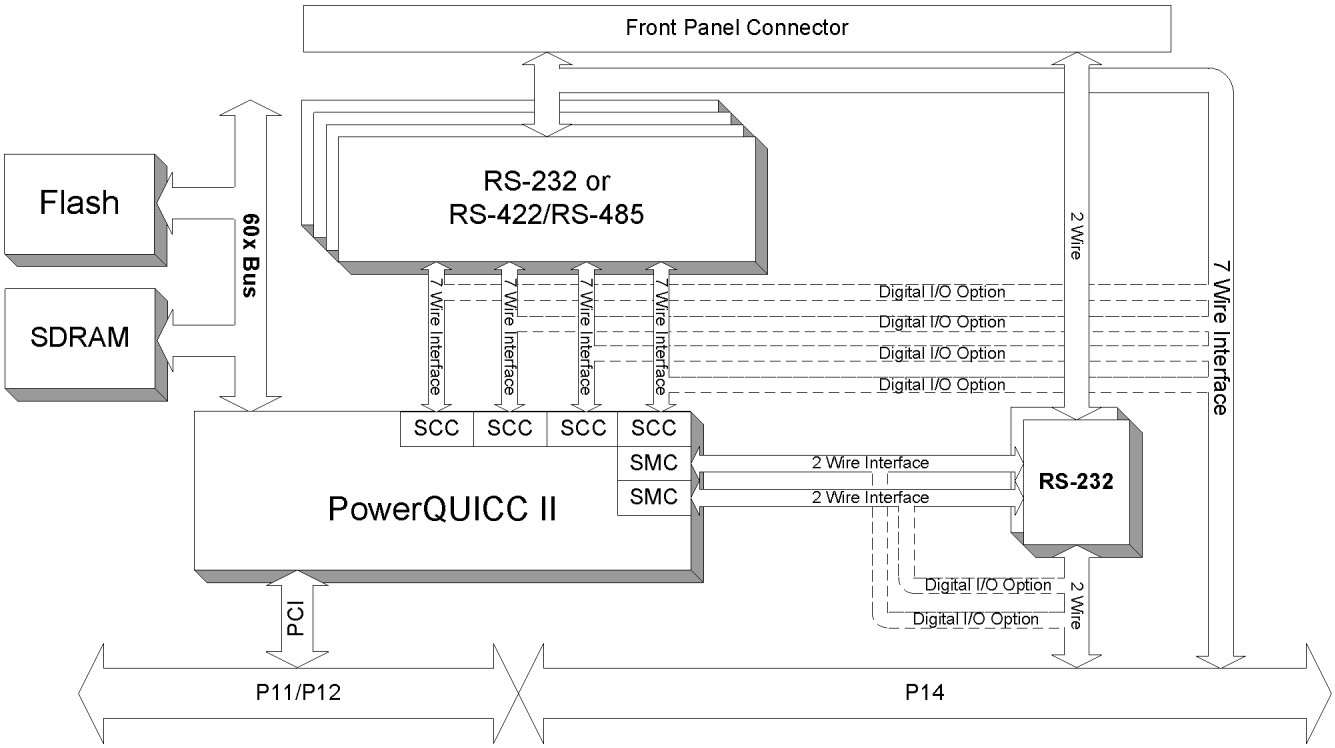
X-ES

Extreme Engineering Solutions...
...Always Fast

For more information on XPort1002:
Visit: http://www.xes-inc.com/
Call: 608-833-1155
E-mail: sales@xes-inc.com

Block Diagram

XPort1002



Processor

- MPC8270 PowerQUICC II
- Embedded PowerPC G2 Core
- 166-450Mhz
- 855 MIPS at 450MHz
- 66MHz 60x Bus
- 16KB Instruction and Data Caches
- 32KB Internal SRAM
- Integrated MMU
- Core Disabled Mode

Memory

- 32-256MB SDRAM

Serial Communication Controller

- HDLC, UART, Transparent and BISYNC modes
- DPLL supporting NRZ, NRZI, FM0, FM1, Manchester and Differential Manchester
- 10Mbps Max Synchronous
- 4Mbps Max Asynchronous

Serial Communication Controller (cont.)

- Independent BRG's for each SCC transmitter and receiver
- 2 Optional Custom Oscillators

Serial Interface

- 4 DTE SCC ports supporting either RS-232 or RS-422/RS-485
- 7 Wire Interface (TXD, RXD, RTS, CTS, DCD, TXC, RXC)
- 2 DTE SMC ports supporting RS-232
- 2 Wire Interface (TXD, RXD)
- Option to route SCC/SMC digital interface to rear panel for RTM support

Software

- VxWorks BSP
- Linux LSP
- SCC/SMC Drivers

Physical

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

Power Requirements (Typical)

- +3.3V 0.78A 2.54W
- +5.0V 0.06A 0.3W
- +12.0V 0.06A 0.72W
- -12.0V 0.03A 0.36W

Operating Temperature

- 0 to +55C ambient (Standard)
- -40 to +85C ambient (Industrial)

Humidity

- 0% to 85%

Storage Temperature

- -40 to +70C (Standard)
- -40 to +85C (Industrial)

X-ES

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