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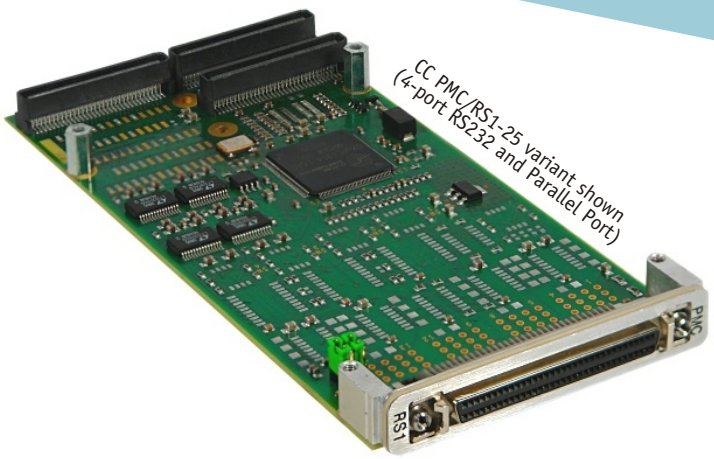
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PMC Module

CC PMC/RS1

N, E, K - Series

Four-Channel RS232/RS422/RS485 Comms Adaptor



APPLICATIONS

The CC PMC/RS1 is a four-channel asynchronous serial communications adaptor supporting either the industry standard RS232 interface, RS422 differential interface or the RS485 multi-drop interface. Suitable for use with any PMC Host Board (VMEbus, VME64, CompactPCI® etc). The product is ideally suited to expand upon the number of serial ports of the host processor board and can be used in a wide range of industrial, telecommunication, commercial, financial and defense applications. To simplify the board's integration many popular industry standard operating systems are supported.

HIGHLIGHTS

- 4 x RS232, RS422 or RS485 PC compatible serial channels:
  - using 16550 compatible serial comms channels
  - RS232 data rates up to 230 Kbps
  - RS422 and RS485 data rates up to 4 Mbps
  - CTS, RTS, DCD, DSR, DTR and RI supported
  - accessed via front panel and PMC P4 I/O connector
- PMC (PCI Mezzanine Card) format
- Single size CMC (Common Mezzanine Card)
- 32-bit 33MHz PCI interface:
  - 3.3V/5V PCI signaling
- For use with VMEbus, VME64, CompactPCI and other PMC Host Boards
- Extended temperature versions (E-Series, K-Series):
  - E: -25°C to +70°C, air-cooled
  - K: -40°C to +85°C, humidity sealant, air-cooled
- Software support for Linux®, Windows® XP, Windows® XP Embedded, Windows® 2000, QNX®, VxWorks® and Solaris™

CONCURRENT TECHNOLOGIES

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Specification

Serial Communications
- 4 x asynchronous serial channels provided by 4 x enhanced 16550 UARTs
- implemented by Oxford Semiconductor OXmPCI954
- serial I/O via 68-way front panel connector and via rear I/O connector
- RS232 data rates up to 230Kbps full duplex
- RS422/RS485 data rates up to 4Mbps
- operates in RS422 mode supporting:-
  - ➔ TXD, RXD, CTS, RTS, DCD, DSR, DTR and RI
- operates in RS485 mode supporting:-
  - ➔ simplex or duplex bus
  - ➔ selectable RXD resistor termination
  - ➔ master/slave selection accessible via software
  - ➔ per channel flow control selectable by DTR or RTS

Parallel Communications
- IEEE 1284 compatible parallel interface supporting:-
  - ➔ SPP (Standard Parallel Port)
  - ➔ PS2 (Simple Bidirectional)
  - ➔ EPP (Enhanced Parallel Port)
  - ➔ ECP (Enhanced Capability Port)

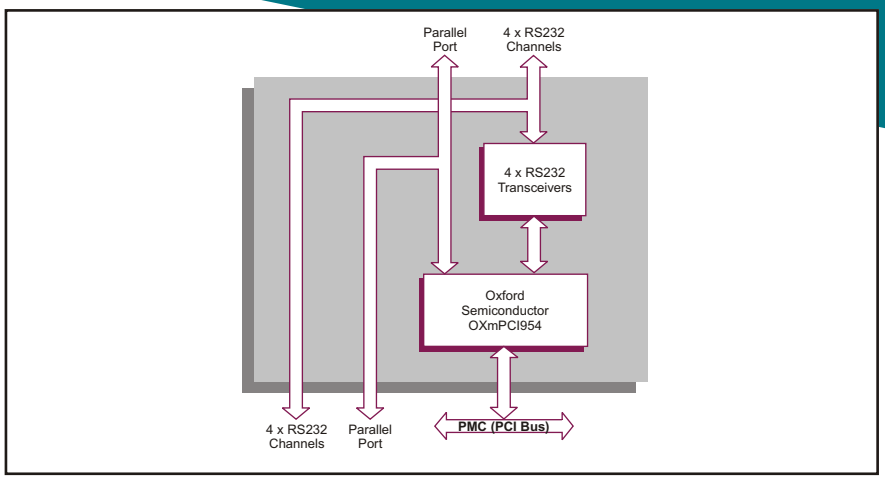
PMC Interface
- 32-bit 33MHz PCI interface:-
  - ➔ 3.3V/5V PCI signaling
- complies with PCI Protocol Specification 3.0
- complies with PCI Electrical Specification 2.3
- base address software configurable

Software Support
- support for Linux®, Windows® XP, Windows® XP Embedded, Windows® 2000, QNX®, VxWorks® and Solaris™

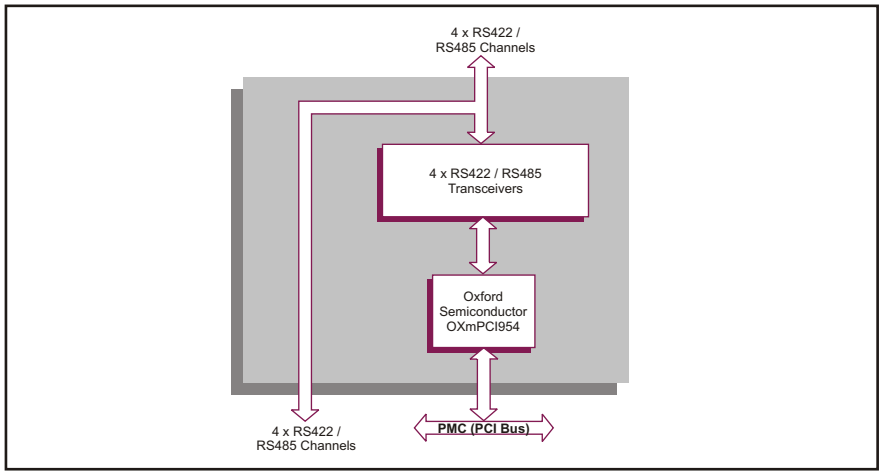
Electrical Specification
- 0.3A @ 5V for RS232 (typical)
- 0.7A @ 5V for RS422 (typical)
- +5V supply tolerance within ±5%
- 3.3V, +12V and -12V not utilized

Environmental Specification
- operating temperatures:-
  - ➔ 0°C to +55°C (N-Series)
  - ➔ -25°C to +70°C (E-Series)
  - ➔ -40°C to +85°C (K-Series)
- storage temperature: -40°C to +85°C
- 5% to 95% Relative Humidity, non condensing (operating or storage):-
  - ➔ K-Series includes humidity sealant

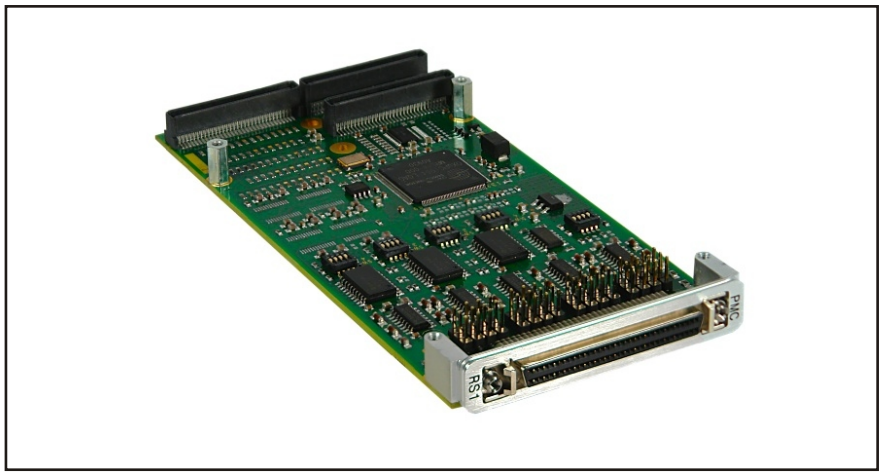
Mechanical Specification
- single size CMC (Common Mezzanine Card) 74mm x 149mm
- 10mm height stack module
- IEEE 1386-2001 compliant



CC PMC/RS1-25 variant (4-port RS232 and Parallel Port)



CC PMC/RS1-50 variant (4-port RS422/RS485)



CC PMC/RS1-50 variant shown (4-port RS422/RS485)

ORDERING INFORMATION

Order Number	Product Description (Hardware)
CC PMC/RS1-25	Four Channel Serial RS232 Adaptor
CC PMC/RS1-50	Four Channel Serial RS422/RS485 Adaptor
CB PMC/232-00	Cable Assembly (68-way to 4 x 9-way D-types RS232 + 1 x 25-way D-type parallel)
CB PMC/422-00	Cable Assembly (68-way to 4 x 25-way D-types RS422/RS485)

For extended temperature, E and K-Series, please contact your local sales office

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Specification subject to change; E and OE. RoHS 2002/95/EC compliant.

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