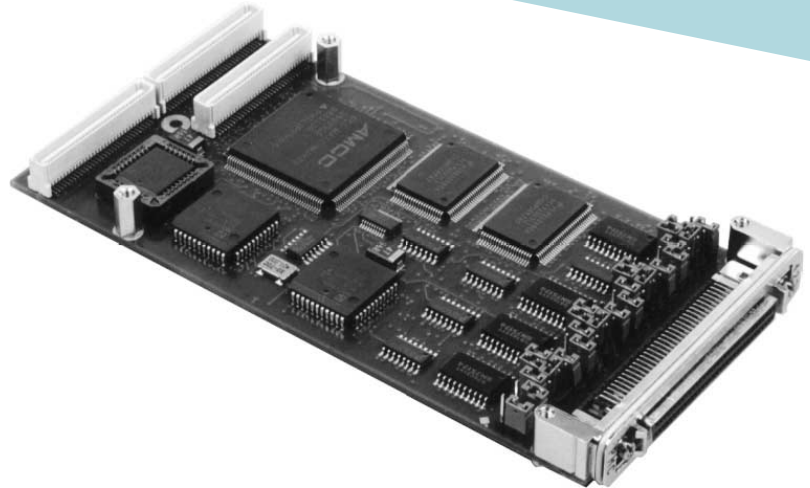


Multi-Channel RS422 Comms Adaptor



APPLICATIONS

The CC PMC/422 is a four-channel serial communications adaptor supporting either the industry standard RS422 differential interface or the RS485 multi-drop interface. Suitable for use with any PMC Host Board (VMEbus, VME64, CompactPCI®, Multibus II etc). The product is ideally suited to augment the normal RS232 asynchron-

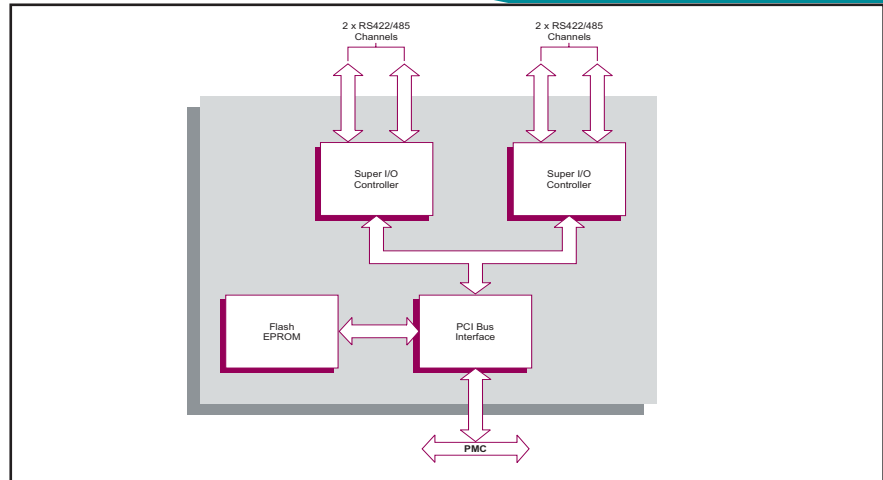
ous ports of the host processor and can be used in a wide range of industrial, telecommunication, commercial, financial and defense applications. To simplify the board's integration many popular industry standard operating systems are supported.

HIGHLIGHTS

- 4 x RS422 or RS485 PC compatible serial channels:
 - Using 16550 compatible serial comms channels
 - Implemented by 2 x Super I/O devices
 - Data rates up to 1.5Mbps
 - CTS, RTS, DCD, DSR, DTR and RI modem signals supported
 - Accessed via front panel and PMC I/O connector
- 64 Kbytes Flash EPROM
- PMC (PCI Mezzanine Card) format
- Single size CMC (Common Mezzanine Card)
- 32-bit interface
- 5 Volt interface
- PCI clock rates up to 33 MHz
- For use with VMEbus, VME64, CompactPCI and Multibus II and other PMC Host Boards
- Software support for VxWorks® and Windows NT®

Serial Communications

- 4 x asynchronous serial channels provided by the equivalent of 4 x 16550 UARTs implemented by:-
 - 2 x National Semiconductor® Super I/O devices
- all serial I/O via 68-way front panel connector (break-out cable available to 4 x 25w D-Type connectors) and via rear I/O connector (J14)
- asynchronous data rates up to 1.5Mbps full duplex
- RS422 or RS485 mode is supported and the mode is software detectable
- operates in RS422 mode supporting:-
 - RS422 supports Tx, Rx, CTS, RTS, DCD, DSR, DTR and RI
- operates in RS485 mode supporting:-
 - Tx and Rx only (Tx and Rx lines for each channel may be connected together)
 - jumperable resistor termination
 - master/slave jumpers that are accessible via software
 - flow control is provided by DTR signal of each channel



Flash EPROM

- 64 Kbytes Flash EPROM
- 8-bits wide
- supports read and write accesses

PMC Interface

- complies with PCI Protocol Specification
- complies with PCI Electrical Specification
- supports PCI clock rates up to 33 MHz
- 5V only
- 32-bit interface
- base address and interrupt selection software configurable

Software Support

- VxWorks and Windows NT supported

Electrical Specification

- all voltages to be within $\pm 5\%$
- 0.9A (typical) current consumption at 5V

Environmental Specification

- 0°C to +55°C (operating)
- 10% to 90% Relative Humidity (operating)
- -40°C to +70°C (storage)
- 10% to 90% Relative Humidity (storage)

Mechanical Specification

- single size CMC (Common Mezzanine Card)
75mm x 150mm

ORDERING INFORMATION

Order Number Product Description (Hardware)

- | | |
|---------------|---|
| CC PMC/422-00 | Quad Serial RS422 Adaptor without break-out cable |
| CC PMC/422-01 | Quad Serial RS422 Adaptor with a break-out cable (to 4 x 25w D-type connectors) |