

IC-SER-PMCe

Octal Serial UART Conductive PMC module

IC-SER-PMCe

Eight high performance :

- asynchronous ports (UART)

Each independent UART :

- 16C550 Compatible
- 64-byte transmit FIFO
- 64-byte receive FIFO
- programmable TX and RX FIFO trigger level
- automatic RTS/CTS flow control
- automatic RS485 HDX control
- programmable data rate with prescaler
- up to 3 Mbps serial data rate in differential mode

Multi-mode transceivers :

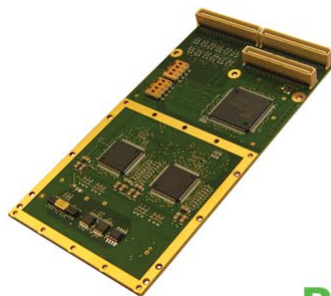
- software selectable mode via the GPIO of Quad UART
- Interface Modes : S232(V28), RS422, X21, V11, EAI530A
- receiver termination network
- high differential transmission rates

The eight channels are available on the rear Pn IO

PCI interface :

- 32-bit 33MHz PCI bus 2.3 target signalling compliance
- universal PCI bus buffers - auto-sense 3.3V or 5V operation
- global interrupt source register for all 8 UARTs
- data transfer in Byte, Word or Double-word

High reliability due to a ultra low-power design and a high CMOS chip integration



Description

IC-SER-PMCe provides eight enhanced UARTs with a PCI bus interface. UARTs have the improved fifth generation register set with 16C550 compatibility.

Each UART of the **IC-SER-PMCe** provides 64-byte FIFO, automatic RTS/CTS or DTR/DSR hardware flow control with hysteresis, automatic Xon/Xoff and special character software flow control, programmable transmit and receive FIFO trigger level, FIFO level counters, independent programmable baud rate with a x1 or x4 prescaler.

Each channel has its own 16550 UART compatible set of registers for an individual control.

The electrical mode of the transceivers is selectable by software via a register .

IC-SER-PMCe supports 32-bit wide read and write data transfer operation including data burst mode through the PCI bus. Read and write data operations may be in byte, word or Double-word format.

Drivers for many RTOS or Linux are available for this communication board.

IC-SER-PMCe boards are available in standard or conduction grade.

IC-SER-PMCe

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Main features

Standard Conformance

Emissions

EN55022 Class A

Immunity

CEI 50082-1 (EN61000-4-2, -3, -4, -5, -6, -11)

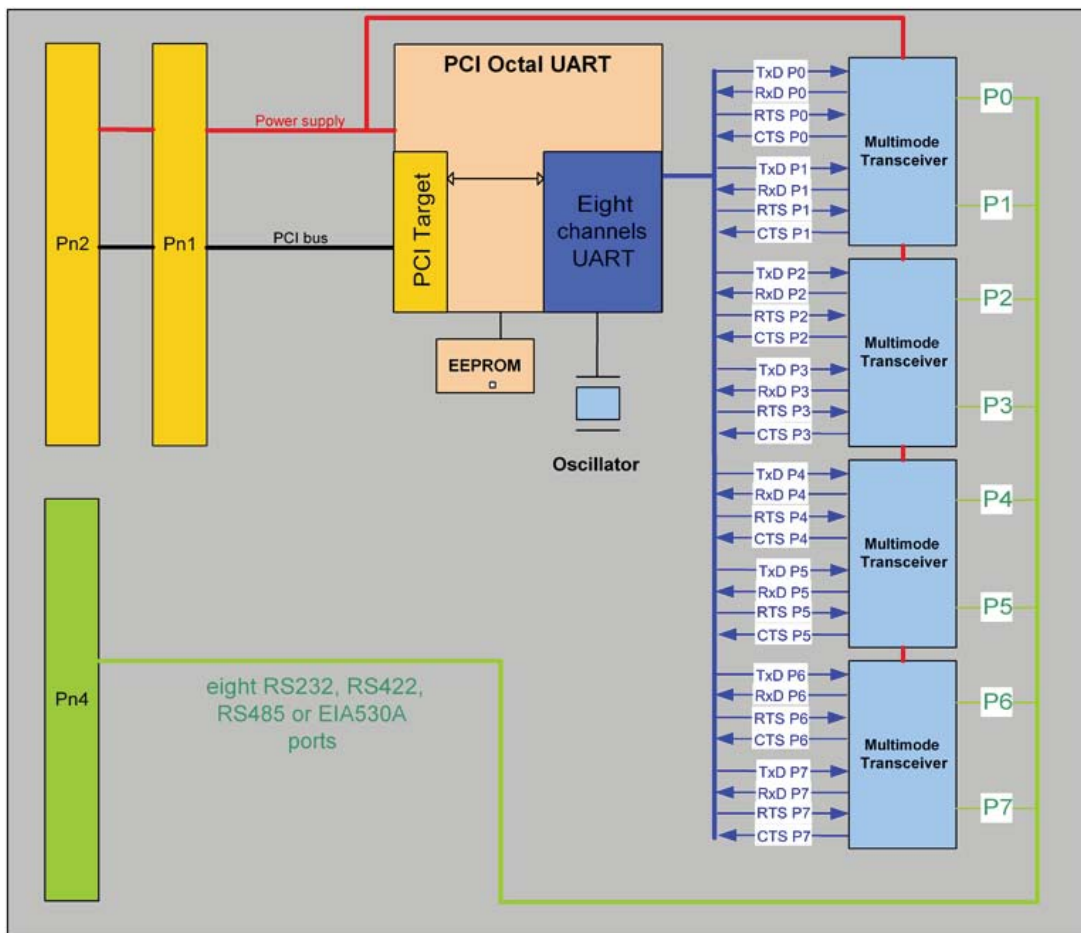
Security

EN60950

Environmental Conduction grade

See the ordering information (Other possible grades with MOQ)

Block Diagram



Environnement Specifications:

Please refer to information below.

Ordering Information:

Please consult the **IC-SER-PMCe datasheet** at www.interfaceconcept.com (listing all products reference and environment grades availability).

This document supersedes any earlier documentation relating to the products referred to herein. The information contained in this document is current at the date of publication. It may subsequently be updated or withdrawn without notice.

