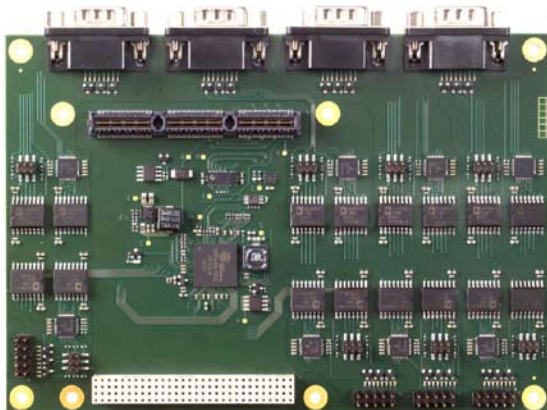


EXP-ISO-COM8

EPIC Express
Octal Serial Interface



Features

8 independent serial ports , RS232 / RS422 / RS485, Galvanically isolated

4 Mb/s maximum (RS422/RS485), 460 Kb/s maximum (RS232)

128 byte FIFOs

Single lane PCI Express, DMA/bus mastering for all UARTs

Optionally, extended temperature range -40 °C...+85°C

Specifications

Board Format EPIC Express
115.00 x 165.00 mm
(4.528 x 6.496 inches)

Controller PLX OXPCle958
PCI Express to octal serial port

Transmission Standards

- RS232
- RS422
- RS485

selectable by jumper

Transmission Speed

- RS422/RS485: 4 Mb/s max.
- RS232: 460Kb/s max.

Serial Ports

- High-performance Oxford Semiconductor 950 UARTs
- 128-byte deep transmit/receive FIFOs
- 9, 8, 7, 6 & 5- bit data framing
- Flexible clock prescaler from 1 to 31.875
- Automated in-band, Xon/Xoff flow control
- Automated hardware flow control
- Advanced FIFO fill management
- Programmable RS485 turn-around delay
- 16C450 through 16C950 software compatibility

RS485 Termination Integrated termination resistors
Selectable with jumper

PCI Express

- Single lane with integrated SerDes
- PCI Express base spec 1.1 compliant
- PCI Power Management 1.2 compliant
- MSI/MSI-X compatible
- DMA/bus mastering facility for all UARTs
- ASPM (L0S, L1) Link power management

Status LED Yes, life indicator

Operating Temperature 0°C...+60°C (commercial)
-20°C...+60°C (industrial)
-40°C...+85°C (extended)

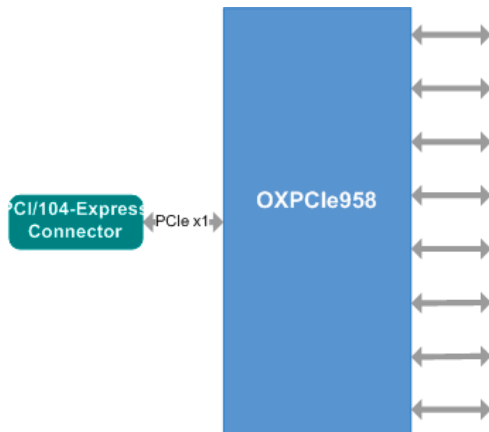
Supply Current 0.5 A maximum

Supported OS Windows 7, Windows XP, XP Embedded, Linux

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Block Diagram



Connector Pinning

Pin	RS232	RS485	Pin	RS232	RS485
1	DCD	not used	6	DSR	RxD+
2	RxD	RxD-	7	RTS	TxD+
3	TxD	TxD-	8	CTS	not used
4	DTR	not used	9	RI	not used
5	ISOGND	ISOGND	Shield/10	not used	not used

Ordering Information

Ordering Number	Description
t14-0002-10	EPIC board with 8 galvanically isolated serial ports
863-00????	Adapter Cable Set for Port 5, 6, 7 8

Note: t denotes the temperature range. Use 7 for commercial, 8 for industrial and 9 for extended temperature range

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