Quad Serial Communication Interface with 2KByte FiFO
Programmable RS-232, RS-422/485
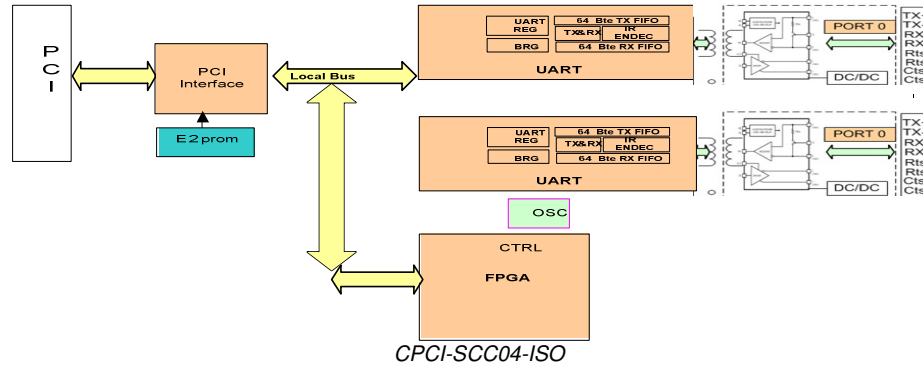## Isolated

CPCI-SCC04-ISO

Summary

The CPCI-SCC04-ISO Module is a quad Channel serial Communication controller with 2K Fifo per Line. The CPCI-SCC04-ISO module is based on 4 enhanced Z85233, with larger FIFOs and several SDLC improvements from Zilog.
This module provides four asynchronous ports up to 230 kbaud synchronous ports and up to Data Rates up to 5.0 Mbit/Sec full-duplex channels, with an independent baud rate generator for each channel.
Several types of interface are supported by the CPCI-SCC04-ISO module: RS-232 and RS-422 / RS-485.
Each channel is Isolated on the TX and RX. Programmable termination resistor is supported.

Features

- Individual programmable Quad RS-232,RS-422/485
- Programmable 16 Discrete RS-422 Transceiver with Interrupt support.
- Edge selection support: positive and or Negative
- Global Interrupt Signal Register
- Each UART compatible 16C550 with 64-byte TX and RX FIFOs
- Automatic RTS/CTS Hardware Flow Control
- Automatic RS485 Direction Control Output with Selectable turn-around delay
- Up to 6.125 MBps Data Rate
- Integrated, Logic-Selectable 120Ω Termination Resistor
- No Damage or Latchup to ESD: ±15kV HBM
- High Input Impedance Supports 256 Nodes
- Isolated to 2500V
- Provision for internal loopback
- Software Libraries and drivers for Winxp and Linux
- Data Bits: 7,8
- Stop Bits: 1,2
- Parity: None, Even, Odd

CPCI Interface

- PCI Bus Target revision 2.2 Signaling Compliant
- VIO 3.3/5.0 Volts
- 32 Bit, 33 MHz
- Interrupts
- DMA

Operating: Environmental

- Operating temperature
  Commercial: 0 to +70 °C
  Optional: -40 °C to +85 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 30'000 ft

Mechanical: Environmental

- Size: Single wide CPCI

- Power: 1.5 watt
- Vibration: 0.5G RMS
  20-2000 Hz rand
- Shock: 20 G, 11 ms, ½ sine
- Weight: tbd
- MTBF: >250000 hours

ORDERING INFORMATION
Part Number: CPCI-SCC04-ISO-XX-C   4 Ch Serial Communication RS-232,RS-22/485
              CPCI-SCC04-ISO-XX-I   Same as above with -40 to +85 C
              XX Desired Oscillator Frequency Option