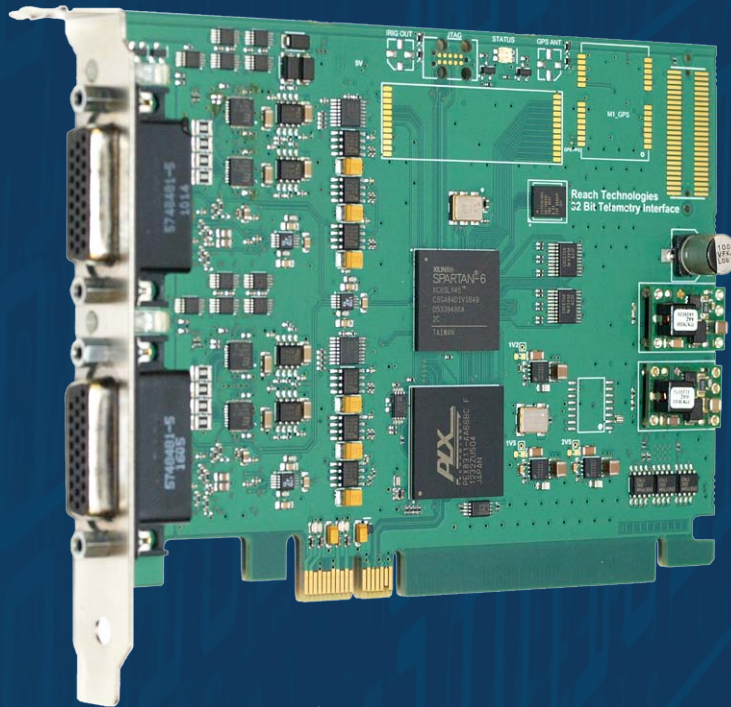


TELEMETRY INTERFACES

TELEM

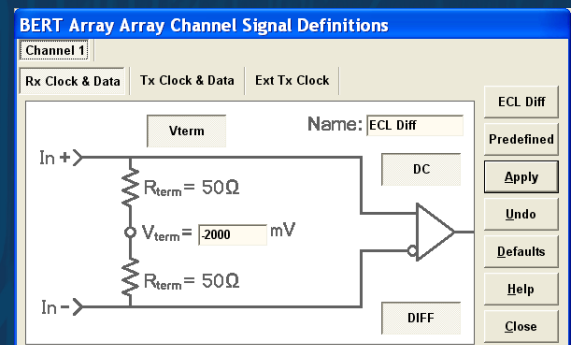
Sets the standard in PCM telemetry interfacing

Reach Technologies Inc. Telemetry Interfaces incorporate leading edge technology for high-performance, cost-effective input or output of serial or parallel telemetry PCM data streams.



Features

- High-Speed
 - ◊ 100 bps to 1+ Gbps
 - ◊ LVDS or ECL
- Low-Speed
 - ◊ 100 bps to 85 Mbps
 - ◊ Programmable I/O electrical levels
 - ◊ Supports TTL, RS-422, LVDS, ECL, PECL, etc.
- Multi-Channel
 - ◊ Windows driver supports up to 14 channels per chassis
 - ◊ Simultaneous input
 - ◊ Simultaneous output
- Internal Clock Synthesizer
- Bit Error Rate Option
 - ◊ Generate 2^{23} PRBS output
 - ◊ Check 2^{23} PRBS input
- I/O Interface Options
 - ◊ SMA I/O Module
 - ◊ TRIAX I/O Module
 - ◊ BNC I/O Module
- Software Development Kit (SDK) Option
 - ◊ Active-X
 - ◊ Quickly develop control and I/O applications
 - ◊ 3rd party application support (LabView, etc.)



TELEMETRY INTERFACES

TELEM

Sets the standard in PCM telemetry interfacing

Technical Specifications

High-Speed

- PCIe 2.0 1x
- 1 or 2 channels
- 1+ Gbps maximum data rate per channel
- Single card slot
- 2 channel scatter/gather DMA controller
- 256 kB Transmit FIFO per channel
- 256 kB Receive FIFO per channel
- Input
 - ◊ LVDS (differential)
 - ◊ ECL (single-ended and differential)
- Output
 - ◊ LVDS
 - ◊ ECL
- Data encode
 - ◊ RNRZ-L, NRZ-L, NRZ-M, NRZ-S
 - ◊ async NRZ and bi-phase
- Data decode
 - ◊ RNRZ-L, NRZ-L, NRZ-M, NRZ-S
 - ◊ async NRZ and bi-phase

Low-Speed

- PCIe 2.0 1x
- 1 or 2 channels
- Single card slot
- 85 Mbps maximum data rate per channel
- 2 channel scatter/gather DMA controller
- 8 kB Transmit FIFO per channel
- 8 kB Receive FIFO per channel
- Input
 - ◊ Programmable electrical levels
 - ◊ Single-ended and differential
 - ◊ TTL, RS-422, LVDS, ECL, PECL, etc.
- Output
 - ◊ Programmable electrical levels
 - ◊ Single-ended and differential
 - ◊ TTL, RS-422, LVDS, ECL, PECL, etc.
- Data encode
 - ◊ RNRZ-L, NRZ-L, NRZ-M, NRZ-S
 - ◊ async NRZ and bi-phase
- Data decode
 - ◊ RNRZ-L, NRZ-L, NRZ-M, NRZ-S
 - ◊ async NRZ and bi-phase

Ordering Options

TELEM-XXXXX-##-FFFF

XXXXX

FFFF

Maximum Data Rate
Number of Channels
Form Factor

{ 50S: 50Mbps, 85S: 85Mbps, 500S: 500Mbps, 1000S: 1Gbps }
{ 1 or 2 }
{ CPCle: CPCle Card, PCle: PCle Card, E: Embedded Module }



Additional Options

TELEM-IO-XXX
CBL-IO-XXX
TELEM-SDK
TELEM-CBX

I/O Interface Module
I/O Cable
Software Development Kit
Crossbar Switch

{ SMA, TRIAX, BNC }
{ SMA, TRIAX, BNC }