

Copper High Speed Serial Mezzanine Board



- **Provides 4 serial lanes at up to 3.125 Gbps each**
- **XAUI Type high speed connector**
- **Data rates from 1.06 - 3.125 Gbps on each port**
- **Supports multiple IO protocols**
 - **10 GigE Ethernet**
 - **Serial FPDP (ANSI/VITA 17.1-2003)**
 - **SerialLite II**
 - **Bonded and Multi-channel versions**
- **Supports independent multi-port recording**
- **Direct data interface to StreamStor® recorders**
- **Field upgradable/customizable hardware**

The Copper High Speed Serial mezzanine board can be used with compatible StreamStor® controllers to provide direct data input from various data sources such as SerialFPDP, SerialLiteII or 10GigE. When combined with a StreamStor® controller such as Amazon Express this interface can provide data input performance of up to 700 MB/s.

With its four independent copper ports the Copper High Speed Serial Mezzanine Board can support recording of up to four incoming data streams. The board can be ordered with support for data rates from 1.06 to 3,125 Gb/s. The board uses the industry standard XAUI copper connector style for easy connection to compatible data sources.

Standard support is provided for the Serial FPDP protocol (ANSI/VITA 17.1-2003), which is a highly specialized protocol optimized for maximum data rates and minimum overhead. With all packet formation and management performed by the hardware, there is no latency or other delays to affect data transmission performance. Combined with StreamStor® storage controllers this data interface provides a reliable and sustainable high speed data recording and playback solution. Other protocols can be supported with updates to the on-board Altera® Stratix® FPGA hardware. The flexibility of programmable logic makes it possible to customize the hardware to each unique application.

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Specifications	
Interface specification	Altera GTP SerDes Compatible
Number of ports	4
Port speed	1.06 to 3.125 Gbps
Cable length	TBD
Cable connector	XAUI
Maximum data rate per port	247 MB/s per port using a 2.5 Gb/s SFPDP link 100 MB/s per port using a 1.06 Gb/s SFPDP link

Serial FPDP

The Serial FPDP protocol is defined by the ANSI / VITA 17.1-2003 standard. The standard is available for a small fee online at www.vita.com. Conduant Corporation also provides hardware source code to customers who wish to implement Serial FPDP on their own FPGA-based circuit boards. Please contact your Conduant sales representative for more details.

Other Protocols

Other protocols are supported including SerialLite II, 10 GigE and multi-channel or bonded versions.

Warranty

Conduant hardware products are backed by a limited one year warranty. All software includes a 90 day warranty. Maintenance and priority support is available on a yearly subscription basis. Please contact your Conduant sales representative for more details.

Customer Support

Customer support is provided through a comprehensive web portal at www.conduant.com/support. Private logins and trouble ticket management are provided along with technical downloads, knowledge base and other support tools.

NOTE: Other mezzanine board configurations are available upon request. Please contact your Conduant sales representative for more details.