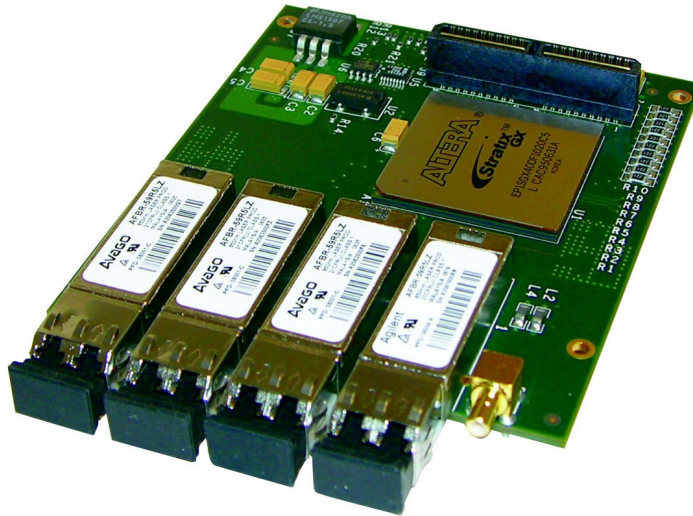


Optical High Speed Serial Mezzanine Board



- **Provides 4 optical fiber interface ports**
- **850nm and 1300nm wavelength options for distances to 25km**
- **Data rates from 1.06 - 2.5 Gb/s on each port**
- **Supports multiple IO protocols**
 - **Serial FPDP (ANSI/VITA 17.1-2003)**
 - **SerialLite II**
 - **Bonded and Multi-channel versions**
- **Supports independent multi-port recording**
- **Supports independent multi-port playback**
- **Direct data interface to StreamStor® recorders**
- **Field upgradable/customizable hardware**

The Optical High Speed Serial mezzanine board can be used with compatible StreamStor® controllers to provide direct data input from Serial FPDP (Serial Front Panel Data Port) as well as other protocols including SerialLite II. When combined with a StreamStor® controller such as Amazon Express this interface can provide data input performance of up to 800 MB/s.

With its four independent optical ports the Optical 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 2.5 Gb/s and wavelengths of 850nm or 1300nm to support cable lengths up to 25km. The board uses the industry standard LC optical 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.

Optical High Speed Serial Mezzanine Board

Specifications	
Interface specification	ANSI / VITA 17.1-2003
Number of ports	2 or 4
Port speed	1.06 to 2.5 Gbps
Optical wavelength	850nm or 1300nm
Cable length	100m (850nm) / 25km (1300nm)
Optical connector	LC
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
Power	3.3V @ 3A

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, multi-channel or bonded.

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.

Ordering Information

SFPDP-4240 (4 port, 850nm, 2.5 Gb)..... Part number: 400300040
 SFPDP-4100 (4 port, 850nm, 1.06 Gb)..... Part number: 400300041
 SFPDP-2240 (2 port, 850nm, 2.5 Gb)..... Part number: 400300035

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