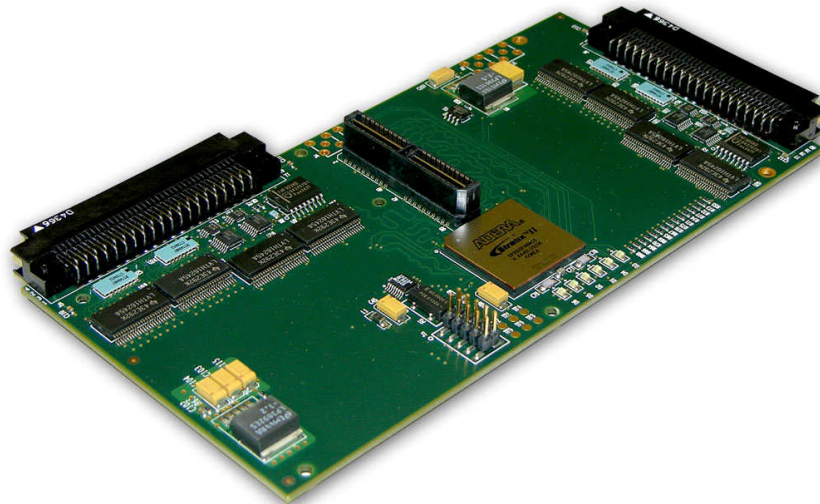


StreamStor® FPDP2 Mezzanine Board



- **Provides 2 parallel FPDP interface ports**
- **32 bit parallel TTL data bus with TTL or PECL clock at single or double data rate up to 50 MHz**
- **Sustained rates of up to 400 MB/s (using double data rate clocking at 50 MHz)***
- **Each port capable of record or playback**
- **Implements ANSI / VITA 17 Front Panel Data Port (FPDP) specification**
- **Direct data interface to StreamStor® recorders**
- **Field upgradable/customizable hardware**

* Outside ANSI/VITA 17 specification

The StreamStor® FPDP2 mezzanine board can be used with compatible StreamStor® controllers to provide direct data input from FPDP (Front Panel Data Port) sources. When combined with a StreamStor® controller such as Amazon this interface can provide data input performance of up to 400 MB/s.

Standard support is provided for the FPDP protocol (ANSI/VITA 17), which is a highly specialized protocol optimized for maximum data rates and minimum overhead. Support is also provided for the FPDP2 protocol which implements dual edge data clocking (double data rate). With all data 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 and features 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.

Specifications	
Interface specification	ANSI / VITA 17-1998
Number of ports	2
Clock speed	Up to 50 MHz
Cable length	Up to 5m (depending on data rate)
Connector	3M P25E-080S-XX
Maximum data rate	400 MB/s

Front Panel Data Port (FPDP)

The FPDP protocol is defined by the ANSI/VITA 17-1998 standard. The standard is available for a small fee online at www.ansi.org. Conduant Corporation also has several technical documents providing details of the FPDP implementation. The extensions to support double data rate (FPDP2) are detailed in the technical paper AN103 available on the Conduant website. Please contact your Conduant sales representative for more details.

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

FPDP2-2400, FPDP Mezzanine (Termination Type 1).....Part number: 400300020
 FPDP2B-2400 FPDP Mezzanine (Termination Type 2).....Part number: 400300021