

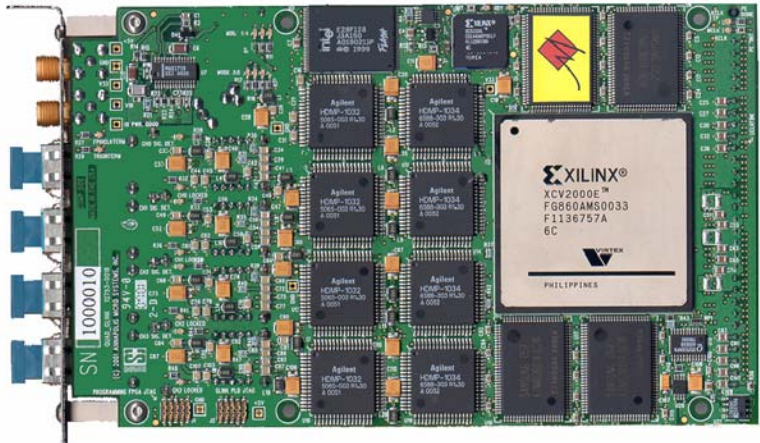
Annapolis Micro Systems, Inc.

Fiber Optic Quad G-Link I/O Card

Up to 1.12 GBytes/Second Total Bandwidth Per I/O Card

General Description

The WILDSTAR™ Fiber Optic Quad G-Link I/O Card provides 4 Full Duplex High Speed Fiber Optic Channels, each with it's own Agilent HDMP 1032/1034 Transmitter/Receiver Chip Set. This I/O Daughter Card can be mounted on a WILDSTAR™ VME or 6U CompactPCI Board, or a FIREBIRD™ PCI or 3U CompactPCI Board. Full CoreFire™ Board Support Package, for Easy Application Programming.



Features

- 1 Virtex™ E FPGA Processing Element
- XCVE1000 to XCVE2000
- 4 Full Duplex Fiber Optic G-Link Channels
- Small Form Factor MT-RJ Transceivers
- 1 Clock and 1 Clock/Trigger Front Panel Input
- VHDL Model Provided for User Programmable FPGA Implementation
- Optional Race™, Single Race++, and Dual Race++ Interface across the P2 Backplane Available Separately
- 21 Functional and Diagnostic Internal LEDs
- Full Parallel Automatic Synchronization System (PASS) Support - Synchronizes Multiple Channels to Allow Data Sizes Greater than 17 bits - Uses Common Clock for Transmit and Receive
- All 4 Channels Can be Configured Independently

- Choice of Singlemode (1300 nm wavelength of light, up to 10,000 m distance operation) or Multimode (850 nm wavelength of light, up to 500 m distance operation)

Benefits

- 1.12 GBytes/Sec Total Bandwidth
- Simultaneous Data Transfer Rates up to 140 MB/Sec Transmit and 140 MB/Sec Receive Per Channel at 70 MHz
- Main Board with I/O card(s) Installed Occupies Only a Single VME or PCI Slot
- Up to 8 Channels in 1 VME Slot, Up to 4 Channels in 1 PCI Slot
- Board and FPGA Speeds up to 150 MHz, depending on Main Board
- Simultaneous 260-1400 MBaud Fiber Serial Rate Per Channel Each Way
- Simple, Low Overhead G-Link Protocol

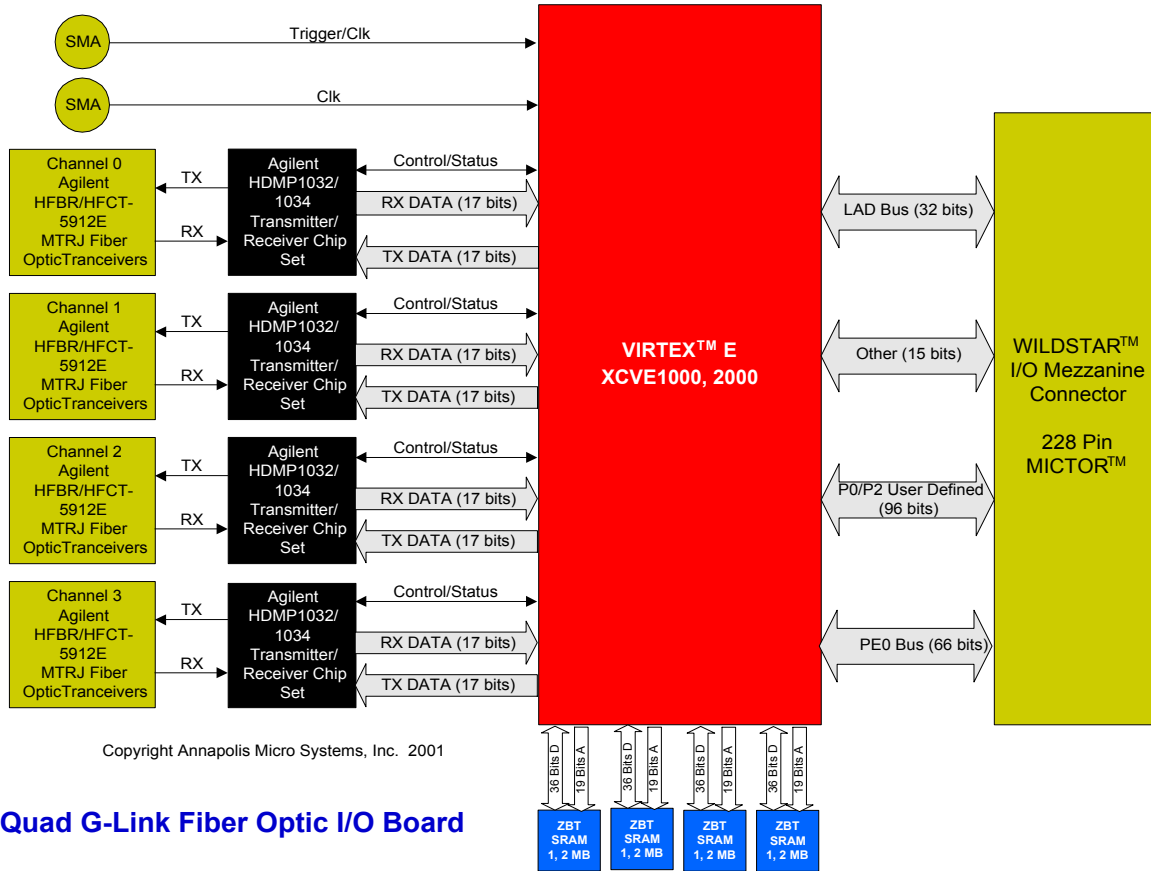


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Quad G-Link Fiber Optic I/O Board

Fiber Optic G-Link I/O Card Part Numbers

Part Number	Description
WS/	Part of WILDSTAR™ Family
IOFOGx/	Fiber Optic G-Link Input/Output Card - S=Single Mode (1300 nm), M=Multimode (850 nm)
VExxxx	Xilinx Virtex™-E FPGA - Available sizes are XCV1000E, XCV2000E
-x	Speed Grade of FPGA - Available speed grades are -6, -7 and -8
/x	Total Amount of Memory on Fiber Optic G-Link I/O Card - Available are 4, and 8 MBytes/ Card
WS/IOFOGS/VE2000-8/8	Fiber Optic G-Link Card for WILDSTAR™ Family, Single Mode, Virtex E XCV2000E-8, 8 Mbytes Memory

Fiber Optic G-Link I/O Card Specifications

Physical Dimensions: Length: 144.8 mm/5.84 in Width: 91.44 mm/3.6 in Thickness: 1.4 mm/.055 in Weight: TBD	Operating Range: Temperature: 0 to 70 degrees C Environmental Specifications: Power (3.3 Volts): 4.0 A Power (5.0 Volts): 100 mA (w/minimal FPGA code)
Safety: All Printed Wiring Boards (PWB) are Manufactured with a Flammability Rating of 94V-0 by a UL Recognized Manufacturer.	Electromagnetic Compatibility (EMC): Intended for Use in Systems Meeting the Following Regulations: USA: FCC Part 15, Subpart B, Class B Canada: ICES-003, Class B

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