V120

FOXI VXI Slot-0 Controller

The FOXI™ interface provides a fiber-optic connection between a PCI-based host computer or workstation and one or more VXI mainframes. It provides a high-throughput, deterministic data acquisition and control system.

Part of the high-speed FOXI fiber-optic interface bus system

TYPICAL APPLICATIONS

Aerospace testing
Automotive test cells
High-performance ATE
Multi-mainframe VXIbus systems
Distributed VXIbus systems
Systems requiring galvanic isolation

FEATURES

- Provides the VXIbus controller for the FOXI interface bus system
- Priced competitively with other VXI interface methods
- Uses fiber-optic highway transmission
- Eliminates bulky parallel cables
- Provides full VXI Slot-0 functionality
- Provides full throughput with a 2 km maximum distance between fiber-optic nodes
- Provides up to 10 Mbyte/s highway throughput
- Supports up to 126 V120 controllers on a single highway

GENERAL DESCRIPTION

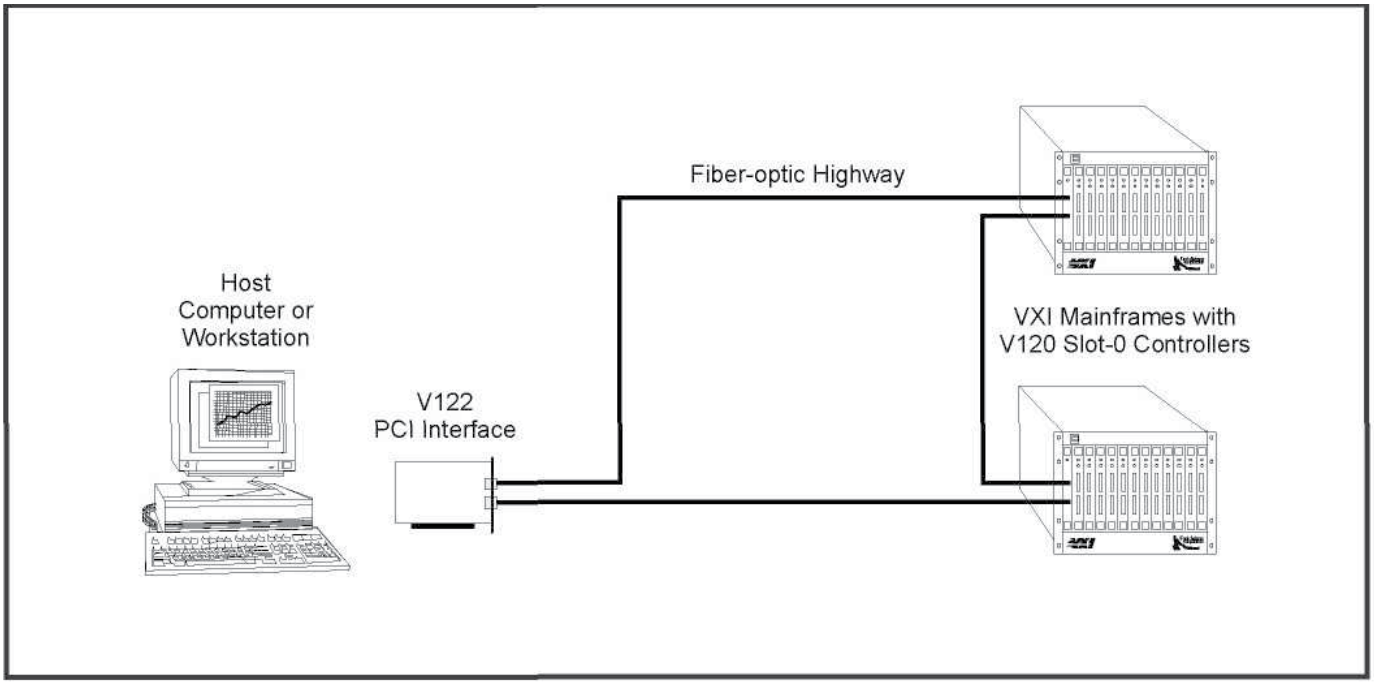
The FOXI™ interface provides a fiber-optic connection between a PCI-based host computer or workstation and one or more VXI mainframes. It provides a high-throughput, deterministic data acquisition and control system. A complete FOXI system includes a V122 FOXI Host Adapter, up to 126 V120 VXI Slot-0 controllers and a fiber-optic highway. The system supports distances between nodes up to 2 km (6560 ft) with an I/O throughput to 10 Mbytes/s.

The V120 is a single-width, C-size, VXIbus controller that interfaces the FOXI highway to a VXI mainframe. It is a slave device on the highway and receives its commands from the host adapter. This module meets all the requirements of a VXIbus Slot-0 controller, including a MODID register for geographic addressing, a "CLK10" 10 MHz source, TTL/ECL trigger functions, and VXI interrupt handling. Interrupts generated in the VXI chassis are acknowledged by the V120, causing a demand message to be transmitted over the highway to notify the host.

The V120 communicates with the VXIbus using A32, A24, or A16 addressing modes as well as D32, D16, or D08 (EO) data transfers. All access via VXIbus is performed using register-based commands. This module includes a 16 MHz clock driver, a data transfer bus priority arbiter, and an interrupt handler.

ITEM	SPECIFICATION
Connectors Fiber Optic (Hwy In and Hwy out) Fiber-optic Cable Type	 ST-Type Connectors 50 or 62.5 µm multimode fiber
Power Requirements AA11	**+5V** **-5.2 V** **-2V** 6.2 A 250 mA 250 mA
Environmental and mechanical Temperature range Operational Storage Relative humidity Cooling requirements Dimensions Front-panel potential	 0°C to 50°C -25°C to +75°C 0 to 85%, non-condensing, to 40°C 10 CFM 340 mm x 233.35 mm x 30.48 mm (C-size VXIbus) Chassis ground

A Typical FOXI Highway Configuration



RELATED PRODUCTS

Model V122	FOXI PCI Host Adapter
Model 5802-Lxyz	Cable—50 µm Fiber-optic
Model 5802-Nxyz	Cable—62.5 µm Fiber-optic
Model AC10	DAQ Director Software for Windows NT

ORDERING INFORMATION

MODEL	DESCRIPTION
V120-AA21	FOXI VXI Slot-0 Controller

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