

HP E2749A

Technical Specifications

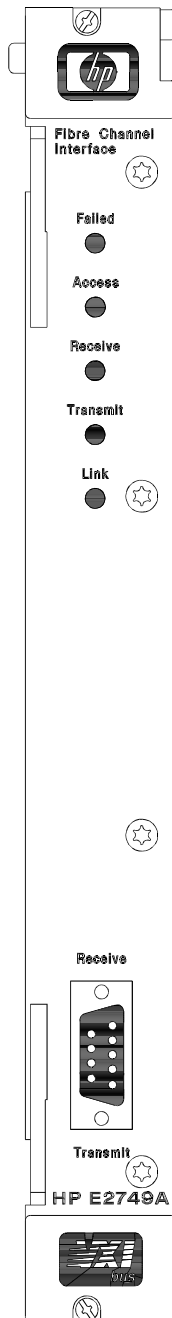
HP E2749A Fibre Channel Interface Module

Rev. July 1997

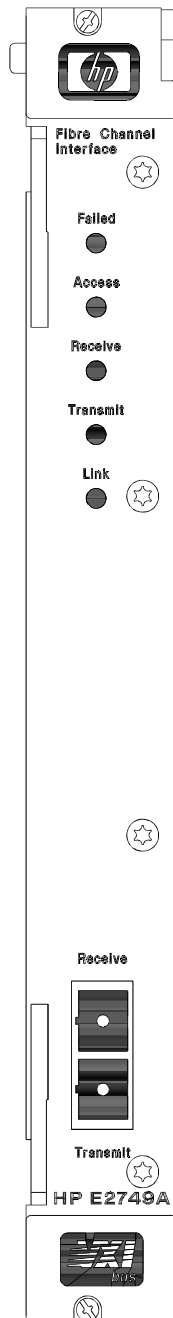
The HP E2749A Fibre Channel Interface Module provides high speed data transfer to and from VXI mainframes. Transfer data at rates up to 41 Mbytes/sec depending on the system configuration and your application. Compare this to typical VXIbus and MXIbus transfer rates of 2 to 4 Mbytes/sec.

The HP E2749A is compatible with Systran Corporation's FibreXpress Lightweight Protocol (FXLP).

Specifications describe warranted performance. **Benchmarks** provide useful information indicative of performance of product in typical operational scenarios. The actual performance in a given application will depend on the actual hardware and software used.



HP E2749A



HP E2749A
with Optical Interface
Option 001

Specifications



General Specifications

Emissions, Rad & Cond	CISPR 11, Group 1, Class A
Immunity standards	
IEC 1000-2-3 ESD	8 kVAD, 4 kVCD
IEC 1000-2-3 Radiated immunity	3 V/m
IEC 1000-2-4 Fast transients	I/O 500 V
Safety	Option 001 includes a class 1 laser device per IEL 825-1. Device is eye safe. Complies with 21 Code of Federal Regulations (CFR, USA), chapter 1, subpart J.
GLM interface	The GLM used in the HP E2749 meets the industry standard defined within the ANSI X3.230-1994 and X3T11/Project 1119D/Rev 8.3 standards, and is FCSI-301-Rev 1.0 compatible.
VXI bus standards	VXI (Rev. 1.4); Message-based servant; A16/A24/A32, D08/D16/D32 Master; A16/A24, D08/D16 Slave Interrupter/handler

VXI power requirement	dc	dynamic current
+5.0 V	3.7A	0.60 A
−5.2 V	0.6 A	0.01 A
−2.0 V	0.14 A	0.07 A
+12.0 V	0.00 A	0.00 A
−12.0 V	0.00 A	0.00 A
+24.0 V	0.00 A	0.00 A
−24.0 V	0.00 A	0.00 A
+5.0 V Standby	0.00 A	0.00 A
	0.00 A	0.00 A

The HP E2749A will consume up to 60 mA (20 mA typ) of +12 while programming ROMS.

VXI cooling requirement (10°C rise)	1.75 liter/second, 0.1 mm H ₂ O
Weight	
Net	1.1 kg (2.5 lbs)
Shipping	4.3 kg (9.4 lbs)
Dimensions	Single slot, C-size VXI module

Maximum cable length

Optical (850 nm multimode laser, 50 µm core diameter)	500 m
Coaxial copper (150 Ω STP connector)	30 m

Environmental

Operating restrictions

Ambient temperature	0° to 55°C
Humidity, non-condensing	< 80% RH at 40°C
Maximum altitude	2300 meters (7,500 feet)

Storage and transport restrictions

Ambient temperature	−40° to 75°C
Humidity, non-condensing	5% RH, 95% RH at 65°C
Maximum altitude	4600 meters (15,000 feet)

Performance Benchmarks

Data Transmit Rate	Greater than 41Mbytes/sec. Read data from E1437 A/D module over Local Bus (16-bit data, 8Mhz span, 20.48 Msamples/sec.), and transmit out Fibre channel.
Data Receive Rate	Greater than 21 Mbytes/sec. Receive data from Fibre Channel and output to Local Bus

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Printed in USA 7/97
5965-9253E**