

# QuickSpecs

## 1000BaseSX (Fibre) PCI LAN Adapter

### Overview

#### Models

1000BaseSX (Fibre) PCI LAN Adapter for HP-UX

A6847A

1000BaseSX (Fibre) PCI LAN Adapter for Windows®/Linux

A7073A

#### Overview

The 1000BaseSX (Fibre) PCI LAN Adapter provides high-performance Gigabit Ethernet networking solution for HP workstations. The LAN adapters are data link adapters that support the IEEE 802.3z standard for 1000Base-SX operation over multimode fiber. The Gigabit Ethernet intelligent adapters are designed to maximize host CPU efficiency by performing functions such as TCP/IP checksum, interrupt coalescing, and byte swapping.

Supports full-duplex point-to-point or back-to-back (via switch to adapter or adapter to adapter) operations only. The adapters do not support half-duplex and do not speed negotiate (1000 Mbps operation only), but do perform auto-negotiation for other link parameters.

The 1000Base-SX Adapter supports only full duplex point-to-point or back-to-back operations (switch to adapter or adapter to adapter connections). The adapters do not support half-duplex (CSMA/CD) and do not speed negotiate (operation is at 1000 Mbps only), but do perform auto-negotiation for other link parameters (refer to the IEEE 802.3z Standards, Clause 37, for specifications on flow control and auto-negotiation).

The 1000Base-SX adapters use short wavelength laser (SWL, 770-860 nm, nominally 850 nm) over 62.5 or 50 micron diameter multimode fiber (MMF) cable. The distance to peer is up to 550 meters with 50 micron diameter MMF, and 200 meters with 62.5 micron diameter MMF cable. The 1000Base-SX adapter interface is provided through a duplex SC fiber connector. Refer to the 1000Base-SX cabling types.

#### Key Benefits/Features

- 1000 Mbps
- Full-duplex operation
- Supports IEEE 802.1Q VLAN tagging and IEEE 802.1p Priority Queuing (HP-UX 11i)
- Minimized host CPU utilization by Protocol offloading through on-board TCP, UDP, and IP checksum calculations
- Large 9000 byte maximum transfer unit (MTU) for improved efficiency and performance with bulk data transfer
- Supports TCP/IP, NFS, and DLPI applications. Ethernet and SNAP encapsulations are supported

#### Compatibility

HP Workstation zx2000 and HP Workstation zx6000

#### Service and Support

The 1000BaseSX (Fibre) PCI LAN Adapter has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day, by phone as well as in online support forms. Certain restrictions and exclusions apply.

### TechSpecs

#### 1000BaseSX (Fibre) PCI LAN Adapter for HP-UX

<b>Operating distance</b>	850 nm multimode up to 1,640 ft (500 m) full-duplex. 722 ft (220 m) with 62.5/125 um multimode fiber cable and 500 m with 50/125 um multiMode fiber cable
<b>Connector</b>	Duplex SC
<b>Controller</b>	Digital 21143
<b>O/S</b>	HP-UX 11.0 (A6847A only) HP-UX 11i v1 (A6847A only) HP-UX 11i v1.6 (A6847A only) Windows XP, 2000 (A7073A only) Linux 2.2, 2.4 (A7073A only)
<b>Data rates supported</b>	1000 Mbps only Full duplex for 1000 Mbps Half duplex not supported for fiber
<b>Standards Compliance</b>	PC 99, WfM 1.1a/2.0, ACPI 1.0, DMI 2.0, WBEM, CIM, WMI, PXE 2.0, BIS, RIS, EFI, SDG 3.0
<b>IEEE compliance</b>	802.3z, 802.3, 802.3u, 802.3x, 802.3z, 802.1Q, 802.3ad
<b>Bus architecture</b>	32-/64-bit, 33/66 MHz PCI; 32-/64-bit, 33/66/100/133 MHz PCI-X
<b>Data path width</b>	64-bit
<b>Data transfer mode</b>	Bus-master DMA
<b>Interrupts</b>	interrupt-A, shareable, system-managed
<b>Power requirement</b>	1.5A @ 5Vdc max. (7.5W)
<b>Boot ROM support</b>	Yes
<b>Network transfer rate</b>	33MHz, 133MBytes/sec. burst Zero-wait-state bus-mastered DMA 10BASE-T (full-duplex) 20 Mbps
<b>Environmental</b>	<b>Operating temperature</b> 32° to 131°F (0° to 55° C) <b>Operating humidity</b> 85% at 131° F (55° C)
<b>Management capabilities</b>	ACPI, WOL and DMI 2.0, PXE 2.0, WfM 2.0, Intel® PROset II utility
<b>Kit contents</b>	One PCI LAN card

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