



DEC FDDIcontroller/PCI

Release Notes

Part Number: EK-DPDDI-RN. A01

These release notes are intended for customer and Digital Service personnel who install, service, or use the DEC FDDIcontroller/PCI Class I laser single-mode fiber (SMF) adapter.

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Introduction

This document describes the four single-mode fiber (SMF) adapters that have been added to the DEC FDDIcontroller/PCI (DEFPA) family of adapters. The installation, problem solving, and general information contained in the DEC FDDIcontroller/PCI installation manual (version C01 or later) applies also to the SMF adapters.

SMF Adapter Models

The following table describes the DEC FDDIcontroller/PCI SMF adapter models available from Digital Equipment Corporation.

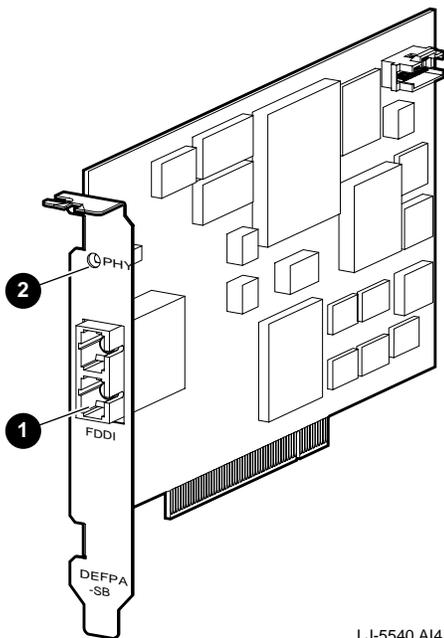
Model	Description
DEFPA-SB	One card, single attachment station (SAS) adapter using Class I laser SMF duplex optics with SC connectors.
DEFPA-WB	One card, dual attachment station (DAS) adapter using a pair of Class I laser SMF duplex optics with SC connectors. This model contains an RJ-12 connector for an optional optical bypass relay (OBR) device.
DEFPA-FB	One card, mixed-media dual attachment station (DAS) adapter using Class I laser SMF duplex optics with SC connectors on the A port, and multimode fiber (MMF) duplex optics on the B port.
DEFPA-HB	One card, mixed-media dual attachment station (DAS) adapter using Class I laser SMF duplex optics with SC connectors on the B port, and MMF duplex optics on the A port.

Single-Mode Fiber-Optic SAS Adapter (DEFPA-SB)

The single-mode fiber-optic SAS adapter (Figure 1) plugs into a single bus master PCI I/O bus slot. A duplex SC connector 1 interfaces with the FDDI fiber-optic cable.

The adapter contains onboard diagnostics that execute when power is applied. The LED 2 on the adapter's mounting bracket indicates the operating status of the adapter and its PHY port.

Figure 1 SMF SAS Adapter (DEFPA-SB)

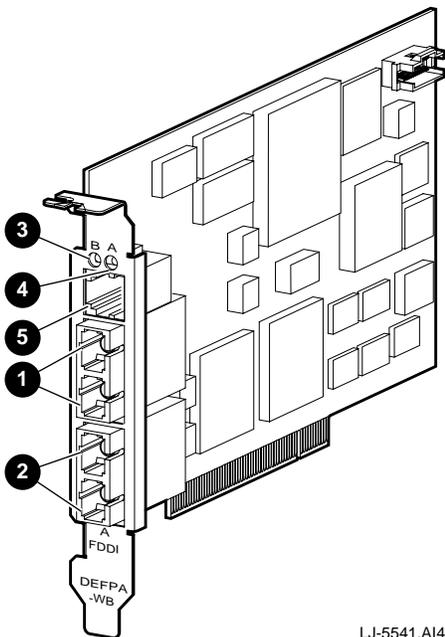


Single-Mode Fiber-Optic DAS Adapter (DEFPA-WB)

The single-mode fiber optic DAS adapter (Figure 2) plugs into a single bus master PCI I/O bus slot. Two duplex SC connectors, port B 1 and port A 2, interface with the FDDI fiber-optic cable.

The adapter contains onboard diagnostics that execute when power is applied. The adapter's LEDs indicate the operating status of the adapter and its PHY ports, port B 3 and port A 4. The RJ-12 connector 5 is used for inserting an optional optical bypass relay (OBR) device to maintain connectivity of the FDDI ring in the absence of power or during fault conditions in the node.

Figure 2 SMF DAS Adapter (DEFPA-WB)



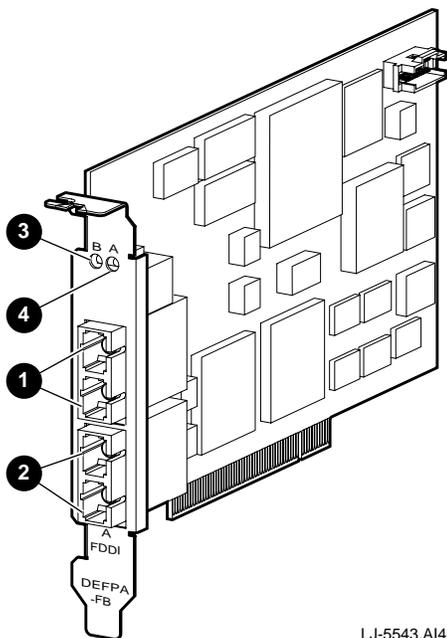
LJ-5541.AI4

Mixed-Media DAS Adapter (DEFPA-FB)

The mixed-media fiber-optic DAS adapter (Figure 3) plugs into a single bus master PCI I/O bus slot. Two duplex SC connectors, port A 2 using Class laser I SMF and port B 1 using MMF, interface with FDDI SMF and MMF cables respectively.

The adapter contains onboard diagnostics that execute when power is applied. The LEDs on the adapter's mounting bracket indicate the operating status of the adapter and its PHY ports, port B 3 and port A 4 .

Figure 3 Mixed-Media DAS Adapter (DEFPA-FB)



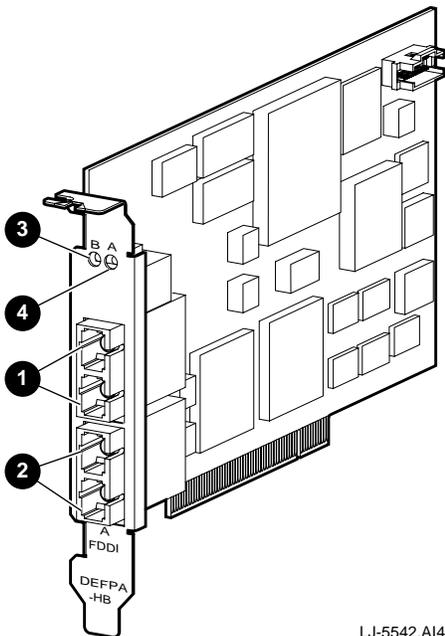
LJ-5543.AI4

Mixed-Media DAS Adapter (DEFPA-HB)

The mixed-media fiber-optic DAS adapter (Figure 4) plugs into a single bus master PCI I/O bus slot. Two duplex SC connectors, port A 2 using MMF and port B 1 using Class I laser SMF, interface with the FDDI MMF and SMF cables respectively.

The adapter contains onboard diagnostics that execute when power is applied. The LEDs on the adapter's mounting bracket indicate the operating status of the adapter and its PHY ports, port B 3 and port A 4 .

Figure 4 Mixed-Media DAS Adapter (DEFPA-HB)



LJ-5542.AI4

Single-Mode Fiber Connections

The DEFPA and DEFEA SMF adapter models (-SB, -WB, -FB, and -HB) may be connected directly to each other without the use of a loss element or a hybrid connector adapter.

The maximum distance between stations connected to a DEFPA or DEFEA SMF port is 60 KM. This distance assumes an available power budget of 22 dB. The minimum loss budget of 12 dB may be required when a DEFPA or DEFEA SMF adapter is connected to a device other than one of these models.

Interconnecting products with mismatched connector types may require the use of a hybrid connector adapter. For example, the DEFPA and DEFEA SMF adapters use SC connectors; other products may use ST or FC connectors. The currently shipping SMF PMD, the DEFXS-BA, uses the ST connector. The previous version, the DEFXS-AA, used the FC connector.

The hybrid connector adapter and loss element may be combined into a single device.

Cable Vendors

This section lists some of the vendors that have adapter cable and couplers readily available.

Cable vendors:

- 3M/Fiber Optics Products
- Anixter Brothers
- Computer Crafts, Inc.

SMF Fiber Attenuators:

- 3M/Fiber Optics Products
- Amphenol Corporation
- Storm Products Co.