

NTBPE IN-LINE

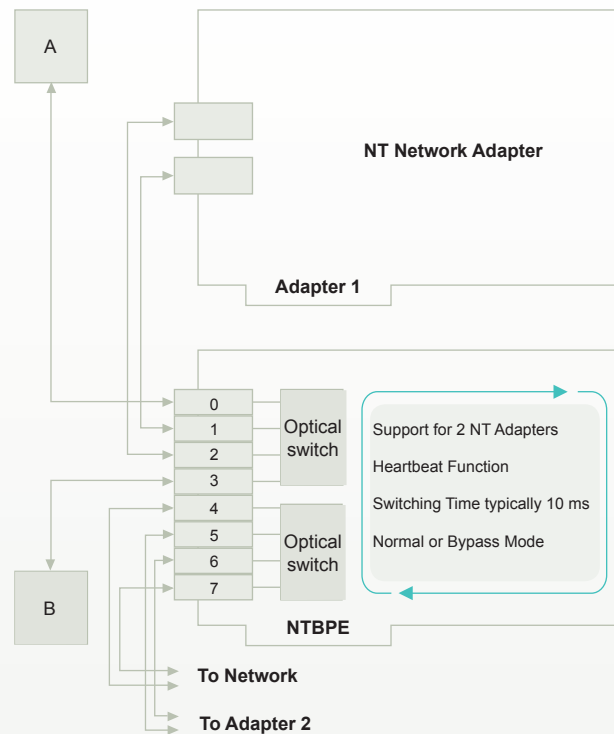
Optical Bypass Adapters

8-port 1 G / 10 G Ethernet PCIe

DATA SHEET

In-line Application Failover

The NTBPE Optical Bypass Adapter provides a stand-alone failover solution for in-line applications using Napatech Intelligent Real-time Network Adapters. The NTBPE adapter ensures that a failure in the network adapter, server or in-line application itself will not impact network connectivity, by optically switching to a bypass path in the event of a detected failure. This switchover can also be performed on command via software. The NTBPE adapter has two modes: Normal and Bypass. In Normal Mode network packets are sent through the bypass adapter to an NT in-line adapter. In Bypass Mode network packets flow through unattended, maintaining a transparent flow of network traffic. The NTBPE adapter has simultaneous support for 1 Gbps and 10 Gbps connections. Two product variants are available supporting either single-mode 9 μm or multi-mode 50 μm fiber.



FEATURE HIGHLIGHTS AND APPLICATIONS

Feature Highlights

- Simultaneous support for 1 Gbps and 10 Gbps connections
- Support for 4 optical network adapter ports
- Compatibility with all NT optical network adapters
- Heartbeat function based on watch dog timer
- Programmable watch dog timer value
- Switching time typically 10 ms
- Two modes: Normal and Bypass
- Programmable start-up mode
- Real-time control of bypass mode
- Programmable power failure detection
- Automatic switch to bypass mode in the case of power failure or heartbeat time-out
- Linux and FreeBSD support

Napatech-supported Applications

The Napatech Optical Bypass Adapters enable our OEM customers to build cost-effective and protected in-line applications.

Examples of supported applications are:

- Firewalls
- Intrusion Prevention System (IPS)
- Unified Threat Management (UTM)
- Anti-spam Filtering
- Traffic Shaping
- Policy Control

SPECIFICATIONS

General Features

- IEEE standard: IEEE 802.3 10 Mbit/s / 100 Mbit/s / 1 Gbit/s Ethernet + IEEE 802.3 10 Gbit/s Ethernet
- Physical interface: 8 x LC connectors
- Simultaneous support for 1 Gbps and 10 Gbps connections
- Insertion loss: Typically 0.7 dB, max. 1.0 dB

Host Interface

- Bus type: 1-lane 2.5 Gbit/s PCIe Gen1

Adapter Hardware

- Flash: Supports boot image
- Physical dimensions: ½-length full-height PCIe

Environment

- Power consumption: 1 Watt
- Operating temperature: 0 - 45 °C, 32 - 113 °F
- Operating humidity: 20 - 80%
- Hardware compliance: RoHS, UL, CE, FCC, CSA, VCCI, C-TICK

Software

- Linux kernel 2.6: 32-bit/64-bit
- FreeBSD 6.x and 7.x: 32-bit/64-bit

Product Variants

- Single-mode:
9 µm, wavelengths 1310 nm (LR) and 1550 nm (ER)
- Multi-mode:
50 µm, wavelength 850 nm (SR)



NTBPE Single-mode



NTBPE Multi-mode

COMPANY PROFILE

Napatech develops and markets the world's most advanced programmable network adapters for network traffic analysis and application off-loading. Napatech is the leading OEM supplier of Ethernet network acceleration adapter hardware. Napatech is fully focused on providing the most cost-effective hardware acceleration solutions for Gigabit Ethernet connectivity, increasing our customers' ability to keep their competitive advantage, while maintaining the flexibility and cost position of standard server equipment and operating systems.

Napatech provides unmatched value-add to our OEM customers by offering a very flexible feature set and a highly scalable range of network adapters. With easy-to-use APIs, Napatech adapters enable effective integration of Network Monitoring, Network Security, Network Control and Assurance, and Network Traffic Generation appliances. Napatech has a strong international focus supporting OEM customers worldwide with headquarters and development located in Denmark, and sales and customer support located in the USA.

Europe, Africa and Asia

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