

IBEx T40d

40G SONET/SDH/OTN Demarcation



The IBEx T40d transport demarcation platform utilizes Bay Microsystems' proprietary transport processing technology to provide infrastructure isolation of customer-premises equipment (CPE) and network service provider equipment. The T40d platform is designed for placement on a customer premises enabling IT professionals to perform remote testing and troubleshooting of customer premises equipment without the need to disconnect the incoming network service.

With the IBEx T40d, terminal or facility loop backs can be created to provide total isolation of both customer and service provider network and equipment environments. This makes the T40d platform essential for quickly analyzing local and remote line conditions including diagnosing network faults such as configuration issues, monitoring performance statistics, and providing alarm notifications in the event of network errors or service disruption. In addition, the T40d supports network monitoring via SNMP (v2/3) enabling both critical system information and port performance statistics to be remotely obtained through industry standard monitoring applications.

The IBEx T40d has two 40G optical interfaces with a digital cross connect allowing for demarcation of SONET/SDH or OTN network environments. The T40d supports pluggable optical transceivers for flexible connectivity options to SONET OC-768 / SDH STM-256 and ITU-T G.709 OTU3 networks.

The T40d is designed to work in conjunction with the IBEx G40 InfiniBand and G40e/G410e Ethernet DCB WAN acceleration platforms.

HIGHLIGHTS

- *Two 40G optical interfaces with flexible support for connectivity to SONET OC-768/SDH STM-256 or ITU-T G.709 OTU3 networks*
- *Enables infrastructure isolation for remote testing, diagnosing network faults, and equipment troubleshooting*
- *Provides robust 40G demarcation capabilities all within a compact, low-power platform*
- *Supports SNMP (v2/3) remote monitoring of critical system information and port performance statistics*

SPECIFICATIONS

Chassis

Form Factor	1U, 19-inch standard rack mount
Dimensions	17.26" Width x 19.40" Depth x 1.72" Height (43.85 cm x 49.27 cm x 4.36 cm)
Weight	Fully configured, 21.0 lbs. (9.53 kg)
Ventilation	Forced air system with front-to-back airflow (Reverse airflow option also available)
Acoustics	Intelligent, speed-controlled fans for low-noise operation
Indicators	AC power input, system status, and link/activity LEDs
High Availability	Redundant, hot-swappable AC power supplies and fan trays
Warranty	2 Years for Hardware and 1 Year for Software

Power and Environmental

Power Input	90-264 VAC (47-63Hz), auto-voltage sensing
Power Supplies	2 x 600 Watts, dual AC input
Power Consumption	150 Watts
Temperature	Operating: 32°F to 104°F (0°C to 40°C) Storage: -40°F to 158°F (-40°C to 70°C)
Humidity	10% to 95% RH, non-condensing

Management and Monitoring

Ethernet	1 x RJ45 (Full Duplex 10/100/1000Base-T w/auto MDI-X)
Serial	1 x RJ45 (RS-232)
Protocols	HTTP/HTTPS, Secure Shell (SSH), Telnet, Network Time Protocol (NTP; RFC 1305)
User Interface	Web-based Graphical User Interface (GUI), Command-Line interface (CLI)
User Authentication	Supports multiple user accounts and privilege levels
Remote Monitoring	SNMP (v2/3) managed object support, syslog

40G Optical Interface

Node Type	Digital Cross Connect
Interface	2 x 40G 300-pin MSA transponders (factory installed)
Port Type	LC fiber connector
Physical Layer	SONET OC-768/SDH STM-256 or ITU-T G.709 OTU3
Modulation	NRZ (VSR2000-3R2) or NRZ-DPSK (DWDM Tunable) (optional)
Timing	Integrated stratum reference or BITS line timing

IBEx Models

T40d	SONET OC-768 / SDH STM-256 or ITU-T G.709 OTU3 Demarcation (Dual NRZ transponders)
T40d-DPSK	SONET OC-768 / SDH STM-256 or ITU-T G.709 OTU3 Demarcation (NRZ+DPSK transponders)



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Some features listed in the specifications may be under development.

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