BTI800 Ethernet Access Devices

Product Overview

The BTI800 line of Ethernet access devices delivers high-performance connectivity and aggregation for Carrier Ethernet business services and 4G LTE and LTE-Advanced mobile backhaul applications. The standards-based, carrier-grade product family, which includes compact service access platforms and high-capacity service aggregation platforms, also supports unified management.

Product Description

The Juniper Networks® BTI800 line of Ethernet access devices supports industry-standard Metro Ethernet Forum (MEF) Carrier Ethernet 2.0 service types for high-capacity Ethernet business services and mobile backhaul (3G/4G/4G LTE and 4G LTE-Advanced) applications.

Tightly integrated with the Juniper Networks BTI7000 and BTI7800 product lines, the BTI800 Ethernet Access Devices represent the Ethernet metro service access and aggregation components of a complete end-to-end packet optical networking solution, delivering a cost-effective and seamless path to high-performance Ethernet services.

The BTI800 platforms leverage dedicated hardware for 1588v2 clock recovery, providing 1 pulse per second and time-of-day GPS minimum recommended data sentence (GPRMC) outputs for phase and clock synchronization in mobile backhaul applications.

Comprehensive Provisioning, Monitoring, and Management

The BTI800 line supports in-band and out-of-band SNMP management as well as a command-line interface for configuration, monitoring, and control functions. The BTI800 platforms feature hardware accelerated, industry-standard Y.1731 performance monitoring for measuring key service performance metrics, including latency, jitter, and frame loss. Built-in RFC2544 test methodology and Y.1564 service activation testing accelerate service turn-up, while Juniper Networks proNX Software and associated applications—including the proNX Service Manager, proNX Dashboard, and proNX SLA Portal—provide easy-to-use GUIs that simplify operations, accelerate service velocity, and optimize quality of experience with end-to-end service provisioning and service-level agreement (SLA) monitoring.

BTI800 Models

The BTI800 line includes three models: the BTI805, BTI821, and BTI822.

BTI805 Ethernet Access Device

The BTI805 delivers high-performance connectivity for Ethernet business services and mobile backhaul applications. The platform provides 40 Gbps nonblocking switching capacity in an ultra-compact design, enabling service providers to deliver price competitive, high-performance 10GbE access services while reducing operational costs and management complexity. This low power and temperature resilient platform is ideal for wireless tower sites and business customer premises.

Your ideas. Connected.™

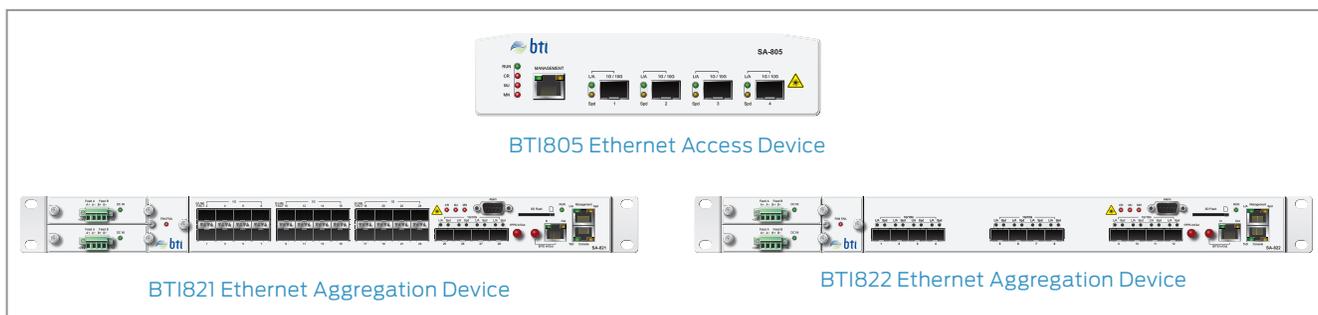## BTI821 and BTI822 Ethernet Aggregation Devices

The BTI821 and BTI822 platforms provide high-capacity Ethernet services aggregation and transport for metro networks. These cost-effective multiservice platforms also deliver high performance and reliability for Carrier Ethernet business services and mobile backhaul applications.

Features and Benefits

- Compact, low power designs deliver high performance and reduce operational costs
- G.8031 and G.8032v2 ring protection to ensure high reliability with sub-50 ms protection switching performance

- MEF CE 2.0 certified E Line and E LAN; MEF CE 2.0-compliant E Access services
- Comprehensive fault and performance management with Y.1731 Operation, Administration, and Maintenance (OAM), loopback, link trace, delay, jitter and loss measurement
- Built-in RFC2544 and Y.1564 test capabilities
- Synchronization source derived from SyncE Ethernet interfaces or 1588v2 clock
- Fully integrated with Juniper Networks proNX Software and associated applications

BTI800 Series Product Options

Model	Size (Rack Unit)	Switching Fabric	Interfaces
BTI805	1 U	40 Gbps	4 ports x 1GbE/10GbE small form-factor pluggable plus transceiver (SFP+)
BTI821	1 U	64 Gbps	24 ports x 1GbE SFP 4 ports x 1GbE/10GbE SFP+
BTI822	1 U	120 Gbps	12 ports x 1GbE/10GbE SFP+

BTI805 Ethernet Access Device

BTI821 Ethernet Aggregation Device

BTI822 Ethernet Aggregation Device

BTI800 Specifications

	BTI805	BTI821	BTI822
Interface options	4 ports x 1GbE/10GbE SPF+	4x 10GbE SPF+ ports/24x 1GbE SPF ports	12x GbE/10GbE SPF+ ports
Dimensions (HxWxD)	1.73 x 7.32 x 7.32 in (4.4 x 18.6 x 18.7 cm)	1.73 x 17.32 x 9.44 in (4.4 x 44 x 24 cm)	1.73 x 17.32 x 9.44 in (4.4 x 44 x 24 cm)
Weight	3.08 lb (1.4 Kg)	5.3 lbs (2.4 Kg)	5.3 lbs (2.4 Kg)
Power consumption	• AC: via 12 V AC adapter • A and B feed per power supply (DC) • DC: –48 V DC/+24 V DC (nominal) • Typical 20 W (maximum 30 W)	• AC: via 12 V AC adapter • A and B feed per power supply (DC) • DC: –48 V DC/+24 V DC (nominal) • Typical 20 W (maximum 30 W)	• AC: via 12 V AC adapter • A and B feed per power supply (DC) • DC: –48 V DC/+24 V DC (nominal) • Typical 20 W (maximum 30 W)
Operating temperature	–40º to +65ºC	–40º to +65ºC	–40º to +65ºC
Storage temperature	–40º to +70ºC (GR-63-CORE)	–40º to +70ºC (GR-63-CORE)	–40º to +70ºC (GR-63-CORE)
Humidity	Up to 85% noncondensing	Up to 85% noncondensing	Up to 85% noncondensing
Environmental and safety certifications	• FCC Part 15 Class A • EN 55022, EN 55024 Class A • CSA • UL 60950-1, IEC 60950-1, EN 61000 • GR-63-CORE Issue 3 • GR-1089-CORE Issue 5 • CE	• FCC Part 15 Class A • EN 55022, EN 55024 Class A • CSA • UL 60950-1, IEC 60950-1, EN 60950-1, EN 61000 • GR-63-CORE Issue 3 • GR-1089-CORE Issue 5 • CE	• FCC Part 15 Class A • EN 55022, EN 55024 Class A • CSA • UL 60950-1, IEC 60950-1, EN 60950-1, EN 61000 • GR-63-CORE Issue 3 • GR-1089-CORE Issue 5 • CE

Ordering Information

For ordering information, please consult the Juniper Networks price list or contact your local Juniper sales representative.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on Twitter and Facebook.

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