

BTI 7000 Series

Packet Optical Platform



The BTI 7000 Series offers massively scalable, carrier-grade networking for simple deployment across mobile backhaul, Ethernet business services, and broadband residential applications. Offering tremendous densities and capacity in compact, modular platforms, the BTI 7000 Series conserves precious rack space while facilitating service-oriented connectivity across metro service networks. The foundation of BTI network solutions, the BTI 7000 Series supports the entire portfolio of client service modules and photonic layer building blocks.

Multi-Function, Multi-Service, and Multi-application

The BTI 7000 series effectively addresses high capacity network and service requirements. Purpose-built for consolidation of packet optical service delivery, Wavelength Division Multiplexing (WDM), ROADM, and photonic layer building blocks, the 7000 series interworks seamlessly with BTI 700 Series Ethernet Access Devices and BTI's proNX Management Suite to address campus, metro, and regional long haul applications.

BTI 7000 Platform Overview

Model	Service Slots	Rack Units
BTI 7200	20 (expandable up to 60)	7
BTI 7060	6 (expandable up to 24)	2
BTI 7030	2	1
BTI 7020	2 (passive only)	1

BTI 7000 Series Key Benefits

End-to-End Packet Optical Networking

BTI 7000 Series platforms offer a common platform strategy across multiple form factors to deliver end-to-end—from customer premise to metro core—network solutions with platforms that converge Carrier Ethernet, multiprotocol optical client interfaces, CWDM and DWDM network multiplexing, reconfigurable optical add/drop multiplexing (ROADM), and photonic layer modules in one platform.

Flexible Shelf Architectures

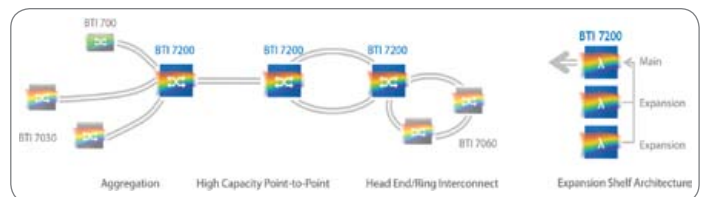
The platforms offer modular utility for service connectivity and infrastructure applications. The any-slot-any-module architecture enables provisioning and deployment of any mix of packet or optical layer modules to address diverse networking requirements and applications in a configuration that best fits your operational model.

Expansion Shelf Architectures for Seamless Scalability

The BTI 7200 and 7060 support an industry-leading expansion shelf architecture, which enables a very flexible pay-as-you-grow deployment model that allows capital expenditures to be granularly attuned to service growth. The expansion architecture allows deployment of additional 7200 or 7060 shelves, providing incremental service slots, yet they are still viewed and managed as a single network entity through the main shelf, greatly simplifying operations.

Common Management and Control

The BTI 7000 platforms operate the same software and use the same System Control Processor (SCP) and Cooling Units (CU). Additionally, BTI's proNX™ management suite is used to manage the entire BTI packet optical and Ethernet Access Device portfolio, delivering a consistent operational model, common software releases, and minimized sparing costs.



Common Equipment

The BTI 7000 Series packet optical platforms provide carrier-grade, high availability power, cooling, and client service module and network management communications.

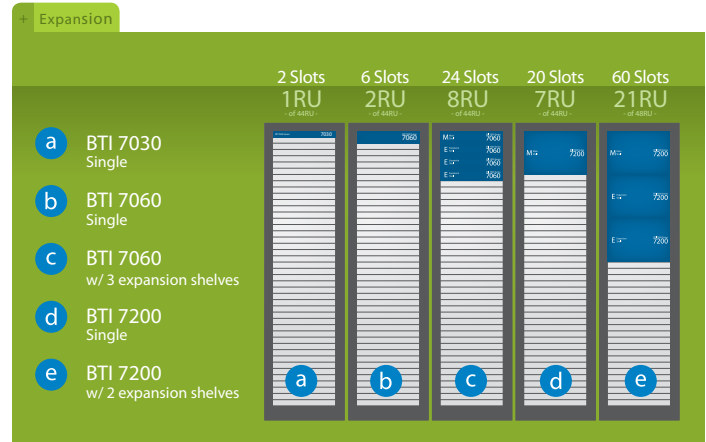
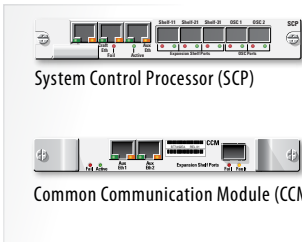
System Control Processor (SCP)—controls the operation of the platform, provides external communications for craft access, and Small Form-factor Pluggable (SFP) ports for Optical Supervisory Channel (OSC) and expansion shelf architecture communications.

Main Shelf Interface (MSI)—provides alarm and shelf status indicators, an IP addressable Ethernet interface to the management LAN, as well as a 26-pin connector for housekeeping alarms.

Common Communication Module (CCM)—provides system communication to the client service and reach extension modules and acts as the primary interface of expansion shelves back to the main shelf within an expansion shelf architecture.

Cooling Unit (CU)—consists of two independent, multispeed fans which can support extended temperature and are hot swappable

Power—provides integrated, front or rear mounted, redundant -48VDC feeds



Common Equipment

		BTI 7200	BTI 7060	BTI 7030
SCP	Pec Code	BT7A20CA	BT7A20CA	BT7A21BA
	Module Size	Single Slot	Single Slot	Dedicated slot
MSI	Pec Code	BT7A53EA	BT7A53BA BT7A53BB	BT7A53CA BT7A53CB
	Module Size	Dedicated slot	Dedicated slot	Dedicated slot
ESI*	Pec Code	N/A	BT7A54BA	N/A
	Module Size	N/A	Dedicated slot	N/A
Cooling Unit	Pec Code	BT7A52EA	BT7A52DA BT7A52EA	BT7A57BA
	Module Size	Dedicated slot	Dedicated slot	Dedicated slot
AC Power Module	Pec Code	BT7A58DA	BT7A58AA	BT7A58BA
	Module Size	Increases shelf height by 1RU	Increases shelf depth to 465mm	Increases shelf depth to 465mm
CCM	Pec Code	BT7A54EA	N/A	N/A
	Module Size	Dedicated slot	N/A	N/A

* Expansion Shelf Interface; used instead of MSI on 7060s configured as expansion shelves

Platform Technical Specifications

	BTI 7200	BTI 7060	BTI 7030	BTI 7020
Variants	BT7A51AA BT7A51AR (w/rear -48V access)	BT7A50AA BT7A50AR (w/rear -48V access)	BT7A56AA	BT7A56BA
Module Slots	20	6	2	2
Module Support	Active/Passive	Active / Passive	Active / Passive	Passive
Dimensions (HxWxD) (mm)	311.1 x 439.5 x 280 (without cover) 311.1 x 439.5 x 305 (with cover)	88.9 x 439.5 x 279.4 (without cover) 88.9 x 439.5 x 304.8 (with cover)	44.4 x 439.5 x 279.4 (without cover) 44.4 x 439.5 x 304.8 (with cover)	44.4 x 439.5 x 279.4 (without cover) 44.4 x 439.5 x 304.8 (with cover)
Weight (empty)	9.1 kg	5.9 kg	2.5 kg	2.5 kg
Power Consumption (DC)	<65W	<50W	<40W	N/A
Extended Temperature Support	-5°C to +50°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Environmental and Safety Certifications	Telcordia NEBS Level 3, Earthquake Zone 4, GR-63-CORE, GR-78-CORE, FCC Part 15 Class A, GR-1089-CORE, IEC/UL/CSA 60950, IEC 60825	Telcordia NEBS Level 3, Earthquake Zone 4, GR-63-CORE, GR-78-CORE, FCC Part 15 Class A, GR-1089-CORE, IEC/UL/CSA 60950, IEC 60825	Telcordia NEBS Level 3, Earthquake Zone 4, GR-63-CORE, GR-78-CORE, FCC Part 15 Class A, GR-1089-CORE, IEC/UL/CSA 60950, IEC 60826	Telcordia NEBS Level 3, Earthquake Zone 4, GR-63-CORE, GR-78-CORE, FCC Part 15 Class A, GR-1089-CORE, IEC/UL/CSA 60950, IEC 60827