

# BTI NETSTENDER™ 1020

## PRODUCT OVERVIEW

IN METROPOLITAN AND REGIONAL NETWORKS, THE BTI NETSTENDER™ 1020 MICROWDM™ SHELF ENABLES HIGH-BANDWIDTH TRANSPORT SERVICES AND IP/ETHERNET OVER WDM. IT DELIVERS SIMPLICITY, FLEXIBILITY, AND LARGE-SCALE FUNCTIONALITY IN A SMALL FORM-FACTOR FOR A GREAT RETURN ON INVESTMENT.



**NETSTENDER™ 1020 microWDM™ Shelf**

The NETSTENDER™ 1020 consolidates key optical transport capabilities – DWDM/CWDM multiplexing, OADM, and dispersion compensation – into a compact network element, making it an ideal solution for a range of applications.

An ultra compact, rack mountable 1U (4.45 cm) shelf designed to Telcordia standards, the Netstender 1020 is fully passive and provides the utmost in cost efficiency since it requires no external power. A customizable combination of two passive modules integrates key optical network building blocks into one complete shelf. Equipped with WDM multiplexers and/or OADM units, the 1020 can be deployed on its own for applications such as metro backhaul or fiber capacity relief.

## APPLICATIONS

- Backhaul of PON, VDSL, EPON, WiMAX
- GbE, 10GbE and Ethernet service overlays
- CWDM/DWDM fiber capacity expansion
- Backhaul capacity for new and expanding 3G service roll-outs

## KEY FEATURES

- Compact 1U rack mountable shelf
- Fully passive, requires no external power
- Fully optimized for low-channel-count metropolitan and regional WDM edge networks
- Available in CWDM, DWDM, and hybrid configurations
- Simple to deploy and configure – low start-up cost
- Delivers key optical functionality – DWDM/CWDM optical multiplexing, OADM, and dispersion compensation

For an active version please see the NETSTENDER™ 1030 Data Sheet.

For higher-density requirements, please see the NETSTENDER™ 2060 Data Sheet.

# BTI NETSTENDER 1020

## Features and Specifications

### NETSTENDER MODULES

#### Optical Multiplexing

- CWDM
  - Mux/Demux, OADM
- DWDM
  - Mux/Demux, OADM
- Splitter/Combiners
  - CWDM + DWDM
  - 1310nm and 1510nm
  - Bidirectional

#### Single Fiber Working

- Bidirectional Mux/Demux

#### Dispersion Compensation

- Dispersion Compensating Fiber
  - DCF – 20, 30, 40, 60 and 80km – Wideband, DWDM (50, 100G spacing)
- Fiber Bragg Grating
  - Channelized FBG – DWDM – 40, 60, 80 km – 32 wavelength ITU DWDM grid

### CARRIER-CLASS EQUIPMENT

- Telcordia™ NEBS level 3 compliant
- ETSI compliant
- RoHS compliant

### PHYSICAL DIMENSIONS

Telcordia™ GR 1312-CORE,  
TR-NWT-000078 compliant

BTI Netstender 1020 (DxHxW)

ANSI – 12" x 1.75" x 17.3"

(304.8mm x 44.5mm x 439.5mm)

ETSI – 10.95" x 1.75" x 17.3"

(278.1mm x 44.5mm x 439.5mm)

Weight: (chassis only) 2.9/6.5 (kg/lb.)

### MOUNTING OPTIONS

23-in or 19-in frames

ETSI cabinets

19-in cabinets

(full front access for wiring and maintenance)

Density – 40 shelves per 7-foot rack

### POWER

Fully passive, requires no external power

### OPERATING ENVIRONMENT

Operating Temperature: -5°C to +55°C  
(+23°F to +131°F)

Operating Humidity (non condensing):  
5% to 90%

Shock/vibration: Earthquake Zone 4  
GR-63-CORE, GR-78-CORE Hardened  
options available to -40°C to +65°C  
(-40°F to +149°F)