

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

BCP

BCP 420B Fiber Optic Transmitter

Queue model 420B is the BCP 420B benchtop DFB laser transmitter. BCP 420B literature lists analog and digital fiber-coupled output, SONET/SDH OC-48/STM-16, transmission to 2.5 Gb/s (3000 Mb/s typical), BellCore GR-253 eyemask in digital mode. DC-coupled digital input: minus 4.5 to 0.0 V without damage, 0 to 2500 Mb/s min, 0.4 ns max minimum pulse width, ECL high minus 900 mV / low minus 1700 mV, threshold 1.3 plus or minus 0.2 V adjustable, 50 ohm to minus 2.0 V. AC-coupled digital: 2.0 Vpp max, 50 to 2500 Mb/s, 40-60 percent ones density, 0.70 to 1.5 Vpp for fully limited optical output, 50 ohm through 0.1 uF. Configurations include 420B-22ST 1310 nm 2.5 Gb FC/PC SM and 420B-23ST 1309 nm 3.0 GHz. Optical receiver and detector test, OC-48/STM-16 stimulus, and long-fiber dispersion experiments. Ac Impedance: 50 ohm AC-coupled through 0.1 uF Example 22st: 420B-22ST 1310.0 nm 2.5 Gb FC/PC SM Example 23st: 420B-23ST 1309.0 nm 3.0 GHz FC/PC Applications: receiver test, detector test, long-fiber dispersion



MODEL

BCP 420B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

420B

LISTING

<https://aumictechlabs.com/products/420b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BCP 420B is a thermal label printer designed for efficient and high-speed printing of barcodes and labels. It has a compact, space-saving design with a large paper loading capacity. This model features a multi-functional button and a two-color indicator for simple operation. The BCP 420B is suitable for various industrial applications requiring reliable and high-quality label

output. Technical Specifications * Printing Method: Direct Thermal Resolution: 8 dots/mm (203 DPI) Printhead Temperature Control: Intelligent system for stable output Memory: 8MB SDRAM, 8MB Flash Emulation Language Compatibility: TSPL, ZPL, EPL, DPL Printing Capabilities * Max Print Speed: 152 mm/s (6 inches/s) Max Print Width: 108 mm (4.25 inches) Max Print Length: 1778 mm (70 inches) DPI Models: Available in 203 DPI and 300 DPI resolution models Media Handling * Media Type: Continuous, gap, black mark, fan-fold, and punched hole Media Width: 20 mm to 115 mm Media Thickness: 0.06 mm to 0.25 mm (0.0023 in. to 0.01 in.) Media Length: 10 mm to 1778 mm Paper Roll Diameter: 25.4 mm to 76.2 mm (1 inch to 3 inches) Label Roll Capacity: 127 mm (5 inches) external diameter Interfaces * Standard: USB 2.0 Optional: LAN, Bluetooth, WIFI Physical Characteristics * Design: High-quality, double-walled clamshell design for easy media loading Body: Space-saving with a large paper loading container Optional Accessories * TF card slot RTC clock Peel-off module Cutter module Operating Environment * Operating Temperature: Not specified Storage Temperature: Not specified Why Choose Aumictech for BCP 420B? At Aumictech, we specialize in supplying high-end thermal label printers. Whether you need high-speed printing, versatile media handling, or solid connectivity options, our team ensures the BCP 420B delivers maximum performance for your application.

420B Characteristics / Specifications

PARAMETER	VALUE
Model	420B
Instrument Type	Benchtop fiber-coupled DFB laser transmitter
Family	BCP 420B
Bit Rate Min	0 to 2500 Mb/s minimum (DC coupled)
Bit Rate Typical	3000 Mb/s typical
Sonet Class	OC-48 / STM-16, BellCore GR-253 eyemask
Dc Input Survival	minus 4.5 to 0.0 V maximum without damage
Min Pulse Width	0.4 ns maximum
Ecl High	minus 900 mV
Ecl Low	minus 1700 mV
Logic Threshold	1.3 plus or minus 0.2 V, adjustable
Dc Termination	50 ohm to minus 2.0 V DC
Ac Input Max	2.0 Vpp
Ac Bit Rate	50 to 2500 Mb/s minimum
Ones Density	40 to 60 percent
Ac Amplitude	0.70 to 1.5 Vpp minimum for fully limited optical output
Ac Impedance	50 ohm AC-coupled through 0.1 uF
Modes	analog and digital
Example 22st	420B-22ST 1310.0 nm 2.5 Gb FC/PC SM
Example 23st	420B-23ST 1309.0 nm 3.0 GHz FC/PC
Applications	receiver test, detector test, long-fiber dispersion
Manufacturer	BCP
Literature	BCP 420B ultra high speed laser transmitter specification text
Jitter Class	extremely low jitter optical eye (family feature list)
Logic Families	10K, 10KH, 100K Si or GaAs ASIC ECL

420B Specifications

PARAMETER	VALUE
BCP 420B Ultra High Speed Fiber Optic Laser Transmitter	Overview
Key Features	2.5 Gb/s DFB transmitter, OC-48/STM-16 eyemask
Analog and digital operating modes	DC- and AC-coupled 50 ohm ECL-class inputs
Technical Specifications	Model: 420B

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From BCP 420B transmitter specification text (digital/analog inputs, OC-48 class). Average optical power on given 22ST/23ST faceplate belongs on that serial, not as a universal 420B number.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.