

Optical Module BCV



Overview

FTLX1471D3BCV Finisar | From €12 | EDGE Optical Solutions BCV and BCL are both Finisar 10GBASE-LR SFP+ modules with identical optical specs. BCV is the right.

Key Takeaways

BCV optical modules are vendor-specific SFP+ transceivers designed for high-speed Ethernet or Fibre Channel applications, with platform-specific EEPROM coding for host system compatibility.

BCV-labeled optical modules, such as the Finisar FTLX1471D3BCV and Intel FTLX8571D3BCV-IT, are SFP+ transceivers used for high-speed data transmission over fiber optic networks. They support 10 Gigabit Ethernet and, in some cases, dual-rate 1G/10G operation. BCV modules are distinguished by platform-specific EEPROM coding, which ensures compatibility with host systems that enforce vendor whitelists, making them ideal for environments where the host validates transceivers before operation.

Key Specifications

- Data Rates: Typically 1.25 Gbps for 1G and 10.3125 Gbps for 10G Ethernet, depending on the module.
- Fiber Type: Single-mode fiber (SMF) for long-reach modules like FTLX1471D3BCV, multimode fiber (MMF) for modules like FTLX8571D3BCV-IT.
- Wavelength: 1310 nm for long-reach 10GBASE-LR modules; 850 nm for multimode 10GBASE-SR modules.

- Reach: Up to 10 km over SMF for 10GBASE-LR modules; shorter distances for multimode fiber applications .
- Connector Type: Duplex LC connectors are standard .
- Temperature Range: Commercial modules typically operate from 0 to 70°C .
- Digital Diagnostics: Many BCV modules support Digital Optical Monitoring (DOM) via a 2-wire serial interface, allowing real-time monitoring of parameters like temperature, voltage, and optical power .

BCV vs BCL

The BCV suffix indicates vendor-specific EEPROM coding, ensuring the module is recognized by certain host platforms. In contrast, BCL modules are generic, MSA-compliant transceivers that work in open environments without host validation. Choosing BCV is necessary when the host system enforces a whitelist, while BCL is suitable for general-purpose use .

Applications

- Data Centers: High-speed interconnects between switches and servers.
- Enterprise Networks: Long-distance connections across campus or metropolitan networks.
- Fibre Channel Storage Networks: Modules like FTLF8532P4BCV support up to 32 Gbps for storage area networks .
- High-Performance Computing: Low-latency, high-bandwidth links for compute clusters.

Summary

BCV optical modules are high-performance, vendor-validated SFP+ transceivers designed for reliable operation in environments that require host system verification. They offer dual-rate or single-rate operation, support long or short fiber links, and provide digital diagnostics for monitoring. Selecting a BCV module ensures compatibility with specific OEM platforms, making them essential for enterprise and data center deployments where host validation is enforced .

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