

Cisco CVR-CFP2-CPAK4 Datasheet



Cisco CVR-CFP2-CPAK4 CFP2-to-CPAK Port adapter module

CVR-CFP2-CPAK4

The Cisco CFP2-to-CPAK adapter allows a Cisco C Form-Factor Pluggable 2 (CPAK) optical module to be plugged into a CFP2 port and to emulate an optical CFP2 100G Module.

The Cisco CFP2-to-CPAK port adapter provides the ability to use the pluggable Cisco CPAK 100GBASE Module in any Cisco platform with a CFP2 client port. The Cisco CPAK module is the lowest power consuming pluggable 100G module available in a variety of IEEE standard optical interfaces from 100GBASE-SR10 to 100GBASE-ER4L. Some platforms may even be able to take advantage of CPAK and Cisco AnyPort breakout technology, enabling 10 G, 40 G or 100 G interconnects to a 100 G port.

There are two port adapters to support Cisco CPAK modules. The CVR-CFP2-CPAK4 supports modules with a 4x25G electrical interface such as CPAK-100G-LR4 and CPAK-100G-ER4L. The CVR-CFP2-CPAK10 supports modules with a 10x10G electrical interface such as CPAK-100G-SR10 and CPAK-10X10G-LR. The CVR-CFP2-CPAK4 adapter supports the two aggregate data rates of 100 Gbps Ethernet and Optical Transport Network (OTN) rates. The CVR-CFP2-CPAK10 supports only the 100GBase Ethernet data rate. Both adapters are optically, electrically, and functionally compliant to IEEE 802.3ba/802.3ae, ITU G.709/G.959 standards.

Main features include:

- Provides the performance advantages and availability of Cisco CPAK for 100 G client CFP2 ports
- Complies with IEEE standards for optical interfaces
- Reduces inventory and costs of multiple 100 G form factors across multivendor platforms environments
- Provides green design with up to 45 percent lower power consumption than comparable CFP2 modules
- The CVR-CFP2-CPAK4 supports 100 Gigabit Ethernet and OTU4 data rates
- The CVR-CFP2-CPAK10 supports 100 Gigabit Ethernet rate only
- Allows any CPAK module to be used in a CFP2 module-based switch, router, or other optical platform port with hot swappable adapter
- Enables interface choice for 4x25G or 10x10G modules
- Supports a pay-as-you-grow model
- Supports Digital Optical Monitoring (DOM)
- Has interoperability with any IEEE-compliant 100GBASE-LR4 or 100GBASE-SR10 form factors
- Provides easy-to-use pull-release handle that is color coded for reach identification
- Comes with Cisco support and reliability
- Supports the Cisco quality ID feature, which enables a Cisco switch or router to identify whether the module is certified and tested by Cisco

Cisco CFP2 to CPAK (CVR-CFP2-CPAK4)

The Cisco CFP2-to-CPAK port adapter offers the flexibility to convert a CFP2 100 Gigabit Ethernet port of a Cisco switch or router to a Cisco CPAK 100 G port.

Connectors and Cabling

CVR-CFP2-CPAK4 and CVR-CFP2-CPAK10 contain no optics, Connector and fiber type information should be determined from the CPAK module datasheet: https://www.cisco.com/c/en/us/products/collateral/routers/carrier-routing-system/data_sheet_c78-728110.html.

Power management

The power supply takes the 3.3V from the host through the CFP2 connector.

- Voltage Supply (V): 3.3
- Symbol: Vcc
- DC Tolerance (%): +/-5
- Peak Inrush Current (mA): 4306
- Max. Current (mA): 2871
- Max. Current Ramp rate mA/ μ s: 100
- Maximum Power when Low-power mode is negated:
 - LR4: 9W
 - SR10, 10x10G-LR: 5.5W
- Maximum Power when Low-power mode is asserted:
 - LR4: 5W
 - SR10, 10x10G-LR:

Adapter operating conditions

- Case Temperature: 0~70°C
- Power supply voltage: 3.135~3.465V
- Power consumption (EOL) without CPAK: 1W

Platform Support

For more details, see the document, "Cisco 100 Gigabit Ethernet Transceiver Modules Compatibility Matrix."

The adapter supports CPAK form factor portfolio to be adapted in CFP2 ports. These include but are not limited to:

- CPAK-100G-SR10
- CPAK-100G-LR4
- CPAK-100G-ER4L
- CPAK-10X10G-LR
- CPAK-10X10G-ERL

Physical specifications

- Maximum outer dimensions (H x W x D): 17.3mm x 41.6mm x 153mm
- Weight: 115.8g

Ordering information

- Product Name: CVR-CFP2-CPAK4=
- Product Description: Cisco QSA Module

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