

Cisco Receive-Only WDM GBIC

The Cisco Receive-Only Wavelength-Division Multiplexing (WDM) Gigabit Interface Converter (GBIC) pluggable allows cable service providers to build optimized transport networks for video-on-demand applications. The Cisco Receive-Only WDM GBIC can be used as a pluggable receiver on any unidirectional link in a CWDM and/or DWDM transport network.

Main features of the Cisco Receive-Only WDM GBIC

- GBIC can be used as receiver for all wavelengths supported by Cisco CWDM and Cisco DWDM pluggable transceivers
- GBIC provides high receive sensitivity
- GBIC is cost optimized for unidirectional links (no transmitter)
- Hot-swappable input device that plugs into Gigabit Ethernet GBIC ports or slots of a Cisco switch/router, linking the port with the network
- Cisco Receive-Only WDM GBIC can be used and interchanged on a wide variety of Cisco products and can be intermixed in combinations of 1000BASE-SX, 1000BASE-LX/LH, or 1000BASE-ZX on a port-by-port basis

Performance

- Gigabit Ethernet 1.25-Gbps full-duplex links
- Receiver Sensitivity -29 decibels (db)

Platform Support

The Cisco Receive-Only WDM GBIC is supported across a variety of Cisco switches, routers, and optical transport devices. For more details see the document *Cisco Receive-Only WDM GBIC Compatibility Matrix*.

Connectors and Cabling

Equipment: Standard GBIC interface
 Network: Single SC connector

Environmental Conditions and Power Requirements

Operating temperature range: 32 to 122 F (0 to 50 C)

Storage temperature range: -40 to 185 F (-40 to 85 C)

Table 1 describes the electrical power interface details, and Table 2 describes optical parameters.

Figure 1
 Cisco Receive-Only
 WDM GBIC

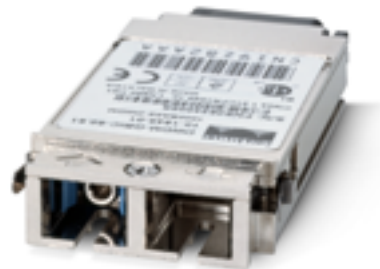




Table 1 Electrical Power Interface Data

Parameter	Symbol	Minimum	Typical	Maximum	Units
Supply current	I_s		250	300	mA
Surge current	I_{Surge}			+30	mA
Input voltage	V_{max}	4.75	5.0	5.25	V

Table 2 Optical Parameters

Parameter	Symbol	Minimum	Typical	Maximum	Units	Notes/ Conditions
Receiver optical input power (BER 10^{-12} with PRBS 2^7-1)	P_{in}	-29.0		-7.0	dBm	1.25 Gbps
Receiver optical input wavelength	λ_{in}	1450*		1620	Nm	See Note a)

Note: Parameters are specified over temperature and at end of life unless otherwise noted.

a) Receiver sensitivity is -25.0 dB for 1270–1450 nm window

Note: When shorter distances of single-mode fiber are used, it might be necessary to insert an in-line optical attenuator in the link to avoid overloading the receiver.

Warranty

- Standard warranty: 90 days
- Extended warranty (option): Available under a Cisco SMARTnet[®] support contract for the Cisco switch or router chassis

Ordering Information

Refer to Table 3 for details on ordering Cisco Receive-Only WDM GBIC.

Table 3 Cisco Receive-Only WDM GBIC Product Information

Product Number	Description
WDM-GBIC-REC=	1000BASE-WDM Receive-Only WDM GBIC

Regulatory and Standards Compliance

Compatible with 1000BASE-X standard as specified in IEEE 802.3z

Safety

Network Equipment Building Standards (NEBS) Level 3



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