

# Cisco SFP-OC3-IR1 Datasheet



Cisco SFP-OC3-IR1 SFP OC-3/STM-1 Intermediate-Reach

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The Cisco industry-standard Small Form-Factor Pluggable Interface Converter (SFP) for Packet-Over-SONET/SDH (POS), optical networking, and ATM applications (Figure 1) are hot-swappable optical interfaces that plug into a variety of ports on Cisco router interfaces. These SFP optics support OC-3, OC-12, and OC-48 data rates for multimode, short-reach, intermediate-reach, and long-reach applications.

Cisco SFP optics for POS and ATM applications plug into a variety of SFP-based POS, TDM and ATM interfaces on Cisco router products. This line of SFP optics supports the following three data rates at various reaches: OC-3/STM-1 (155 Mbps), OC-12/STM-4 (622 Mbps), and OC-48/STM-16 (2,488 Gbps).

The SFPs are compatible with the SONET/SDH and ATM standards, and support the digital diagnostic functions specified in the SFF-8742 Multi-Source Agreement (MSA) and the extended operating temperature range from 23 to 185°F (-5 to 85°C).

The Cisco SFP optics for POS and ATM applications allow real-time access, through the digital diagnostic monitoring interface, to a set of transceiver parameters such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

The ability to read these parameters in real time greatly enhances the installation, activation, and troubleshooting of these SFP optics.

## Specifications

- Part Number: SFP-OC3-IR1
  - Description: Cisco SFP OC-3/STM-1 Intermediate-Reach
  - Connectors: Dual LC/PC connector
  - Fiber Type: Singlemode
  - Typical Distance: 15km
  - Transmitter Wavelength Range: 1261 to 1360nm
  - Transmit Power Range (dBm): -8 to -15
  - Receiver Power Range (dBm): -8 to -28
  - Optical Path Penalty (dB): 1
  - Digital Optical Monitoring Support: Yes
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- Temperature Range: -5 to +85°C
  - Storage temperature range: 23 to 185°F (-5 to 85°C)
  - Dimensions (H x W x D): 8.6 mm x 13.7 mm x 56.5 mm

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