

Cisco Smart SFP Datasheet

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Contents

Product overview	3
Product specifications	4
Dimensions	4
Regulatory and standard compliance	4
Ordering information	5
Warranty	5
Cisco environmental sustainability	5
Cisco Capital	6
Document history	7

Cisco Smart SFPs (Small Form-Factor Pluggables) family

Product overview

Cisco Smart SFPs enable applications such as TDM over Packet, migration and integration of Transport Networks into Packet Switching Networks, interoperability with any standard SAToP equipment, and aggregation of SONET/SDH links. These Smart SFPs can operate with Cisco's HD CEM solution on the NCS4200/NCS540/ASR900 product family today.

Cisco TPOp (Transparent PDH over Packet) Smart SFP

The TPOp Smart SFPs convert T1 or E1 incoming signals into Gigabit Ethernet traffic, enabling the integration of Synchronous Interfaces onto Ethernet Networks.

This conversion is based on SAToP (RFC4553) protocol.



Figure 1.
Cisco TPOp Smart SFP for T1 and E1



Figure 2.
Cisco TPOp Smart SFP for T3

Cisco CSoP (Channelized SONET/SDH over Packet) OC-3/STM-1 Smart SFP

The CSoP Smart SFP converts OC-3 or STM-1 incoming signals into Gigabit Ethernet traffic enabling the integration of Synchronous Interfaces onto Ethernet Networks.

Additionally, it channelizes a STM-1 signal into 63 (E1) or an OC-3 signal into 84 (DS1) independent Circuit Emulated Services (CES), and vice versa, it converts 63 (E1)/84 (DS1) independent CES streams into a fully channelized signal.



Figure 3.
Cisco CSoP Smart SFP

Product specifications

Tables 1 and 2 list the Cisco Smart SFP parameters and characteristics.

Cabling characteristics

Table 1. Cabling characteristics

Product description	Connector type	Media	Cable type	Fiber grade	Core size (microns)	Maximum distance (m)
T1F SAToP Smart SFP	RJ-45	Copper	Cat5e/6A	N/A	N/A	200
E1F SAToP Smart SFP	RJ-45	Copper	Cat5e/6A	N/A	N/A	100
T3F SAToP Smart SFP	Mini Coax	Copper	Mini Coaxial	N/A	N/A	137
OC-3/STM-1 Smart SFP	LC	SMF	Duplex Fiber	G.652	9	15,000

Environmental and operational characteristics

Table 2. Environmental and operational characteristics

T1F SAToP Smart SFP	Operating temp range	Storage temp range	DOM capable	Typical power consumption (W)	Bail-latch color
T1F SAToP Smart SFP	-40 to 85° C	-40 to 85° C	Not applicable	1.2W	Golden
E1F SAToP Smart SFP	-40 to 85° C	-40 to 85° C	Not applicable	1.05W	Golden
T3F SAToP Smart SFP	-40 to 85° C	-40 to 85° C	Not applicable	1.25W	Yellow
OC-3/STM-1 Smart SFP	-40 to 85° C	-40 to 85° C	Yes	1.28W	Yellow

Dimensions

- For TPOp Smart SFP: Dimensions (H x W x D)—8.5 mm x 13.7 mm x 69.2 mm
- For CSoP Optical Smart SFP: Dimensions (H x W x D): 8.5 mm x 13.9 mm x 56.5 mm

Regulatory and standard compliance

For TPOp Smart SFP

- Class B Electromagnetic Interference per FCC part 15 and EN55022
- ITU-T G.703 Compliant
- RoHS Compliant

For CSoP Smart SFP

- Class 1 Laser per FDA/CDRH and IEC-60825 standards
- Optical Specification according to GR-253-CORE and ITU-T G.957
- Electrical interface: GbE in acc. IEEE Std 802.3-2008
- RoHS Compliant

Ordering information

To place an order, visit the [Cisco Ordering Home Page](#). Table 3 lists the ordering information for the Cisco SFP transceivers for POS/SDH and ATM applications.

Table 3. Ordering information

Product description	Product number
T1F SAToP Smart SFP	SFP-T1F-SATOP-I
E1F SAToP Smart SFP	SFP-E1F-SATOP-I
T3F SAToP Smart SFP	SFP-T3F-SATOP-I
OC-3/STM-1 Smart SFP	SFP-CH-OC3STM1-I

Warranty

- Standard warranty: 5 years
- Expedited replacement available via a Cisco SMARTnet Service support contract

Cisco environmental sustainability

Information about Cisco’s environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

Document history

New or revised topic	Described in	Date

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