

10/100/1000BASE-T SFP

HIGHLIGHTS

Extreme Networks® pluggable optics provide physical layer connectivity for optical-port modular switch IO blades and optical-port stackable switches.

- Provides a range of optic options for enterprise and service provider needs.
- Helps network managers meet their varied and evolving network demands.
- Hot-swappable, reliable, and cost-effective optics



10/100/1000BASE-T SFP

Product Overview

Extreme Networks 10/100/1000BASE-T industrial grade SFP GBIC operates at wide temperature range of (-40C to 85C) and provides high performance, 1Gb/s using Category 5 copper link that spans up to 100m in length. Extreme Networks SFP GBIC is ideal for full-duplex Gigabit Ethernet connectivity to high-end workstations and wiring closets utilizing existing copper network infrastructure.

Extreme Networks optics are thoroughly tested and are subject to an extensive qualification process before being considered certified to work in Extreme Networks IO modules and switches. Only proven, qualified vendors are chosen to assist in providing an end-to-end optical solution

Key Features

10/100/1000BASE-T SFP

- Up to 1.25Gb/s bidirectional data links
- Hot-pluggable SFP footprint
- Extended operating temperature range (-40° C to +85° C)
- Fully metallic enclosure for low EMI
- Low power dissipation (1.05 W typical)
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- 10/100/1000BASE-T operation in host systems with SGMII interface

Note: See the [ExtremeXOS Hardware/Software Compatibility and Recommendation Matrices](#) document for limitations on supported port speeds in certain systems.

Make Your Network Mobile

10/100/1000BASE-T OPTIC	
Cable Type	Category 5 or better
Connector Type	RJ-45
Tx Output Impedance (Transmission Line SFP)	100 Ohm
Rx Input Impedance (Transmission Line SFP)	100 Ohm
Tx Input Impedance (host-SFP)	50 Ohm (single-ended)
Rx Output Impedance (host-SFP)	50 Ohm (single-ended)
Voltage (Typical)	3.3V
Input Voltage Range	3.13 to 3.47V
Maximum Voltage	4V
Operating Temperature	-40°C to 85°C
Distance Range (Distance/Speed)	100m/1Gps;150m/100Mbps;250m/10Mbps
Data Rate	1.25Gb/s bidirectional
Mean Time Between Failure (MTBF)	5,650,000 hours

Technical Specifications

STANDARD

- Compatible with SFP MSA

PHYSICAL SPECIFICATIONS

- Dimensions (HxWxD): 0.48x0.54x2.70 in (1.22x1.38x6.86 cm)
- Weight: 0.06 lb (25.1 g) unpackaged, 0.30 lb (135g) packaged
- Shipping box dimensions (HxWxD): 2.1x6.8x7.7in (5.4x17.2x19.6 cm) (0.23 kg) packaged

COMPLIANCE

Operational Environment

- Operating Temperature: -40°C to 85°C
- Operating Humidity: 5% to 95% non-condensing
- Operational Shock: 30 m/s² (3g), 11ms
- Operational Random Vibration: 5 - 500 Hz @ 1.5 Grms

STORAGE & TRANSPORTATION CONDITIONS ENVIRONMENT

- Temperature: -40° C to 85° C
- Relative Humidity: 10% to 95%
- Shock: 180 m/s² (18g), 6ms
- Random Vibration: 5 - 20 Hz @ 1.0 ASDw/-3dB/oct. from 20-200 Hz
- Drop: 42" (105cm)
- Safety Compliance

NORTH AMERICAN SAFETY OF ITE

- UL60950:2000 3rd edition of later, Recognized Component or CAN/CSA-C22.2 No. 60950-
- 00:2000 3rd Ed or later Recognized Component

EUROPEAN SAFETY OF ITE

- EN60950-1:2001+ all available country deviations
- 2006/95/EC Low Voltage Directive (LVD)

Regulatory/Safety Standards

EMI/EMC COMPLIANCE

North America EMC for ITE

- FCC CFR 47 Part 15 Class A (U.S.A.)
- ICES-003 Class A (Canada)
- European EMC Standards
- EN 55022:1998 or later, Class A
- EN 55024:1998 or later, Class A
- ETSI EN 300 386: v1.3.1 2001-09 or later
- (EMC Telecommunications)
- 2004/108/EC EMC Directive

INTERNATIONAL EMC CERTIFICATIONS

- CISPR 22:1997 or later, Class A (International Emissions)
- CISPR 24:1998 or later, Class A (International Immunity)
 - IEC/EN 61000-4-2 Electrostatic Discharge, 8kV Contact, 15kV Air, Criteria A
 - IEC/EN 61000-4-3 Radiated Immunity 10V/m, Criteria A
 - IEC/EN 61000-4-4 Transient Burst, 1kV, Criteria A
 - IEC/EN 61000-4-5 Surge, 1kV L-L, 2kV L-G, Level 4, Criteria A
 - IEC/EN 61000-4-6 Conducted Immunity, 0.15 – 80MHz, 10V/m unmod. RMS, Criteria A
 - IEC/EN 61000-4-11 Power Dips & Interruptions, >30%, 25 periods, Criteria A

ENVIRONMENTAL, TRANSPORTATION, STORAGE AND OPERATIONAL STANDARDS

- EN 300 019-2-3 v2.1.2 (2003-04), Stationary Use, Class 3.1e
- EN 300 019-2-2 v2.1.2 (1999-09), Public Transportation, Class 2.3
- EN 300 019-2-1 v2.1.2 (2000-09), Storage, Class 1.2
- RoHS 6 compliant
- China RoHS compliant
- WEEE Compliant

Note: All SFP modules meet the listed standards when installed in Extreme Networks equipment.

Warranty

- Ltd. 1-year
- For warranty details, visit:
<http://www.extremenetworks.com/support/policies#warrantyTag>

Ordering Information

PART NUMBER	NAME	DESCRIPTION
10070H	10/100/1000BASE-T, SFP, Hi	10/100/1000 copper SFP, Hi, 100M over Category 5 cable

Note: See the [ExtremeXOS Hardware/Software Compatibility and Recommendation Matrices](#) document for a full list of supported devices and ExtremeXOS release recommendations.



<http://www.extremenetworks.com/contact> / Phone +1-408-579-2800

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