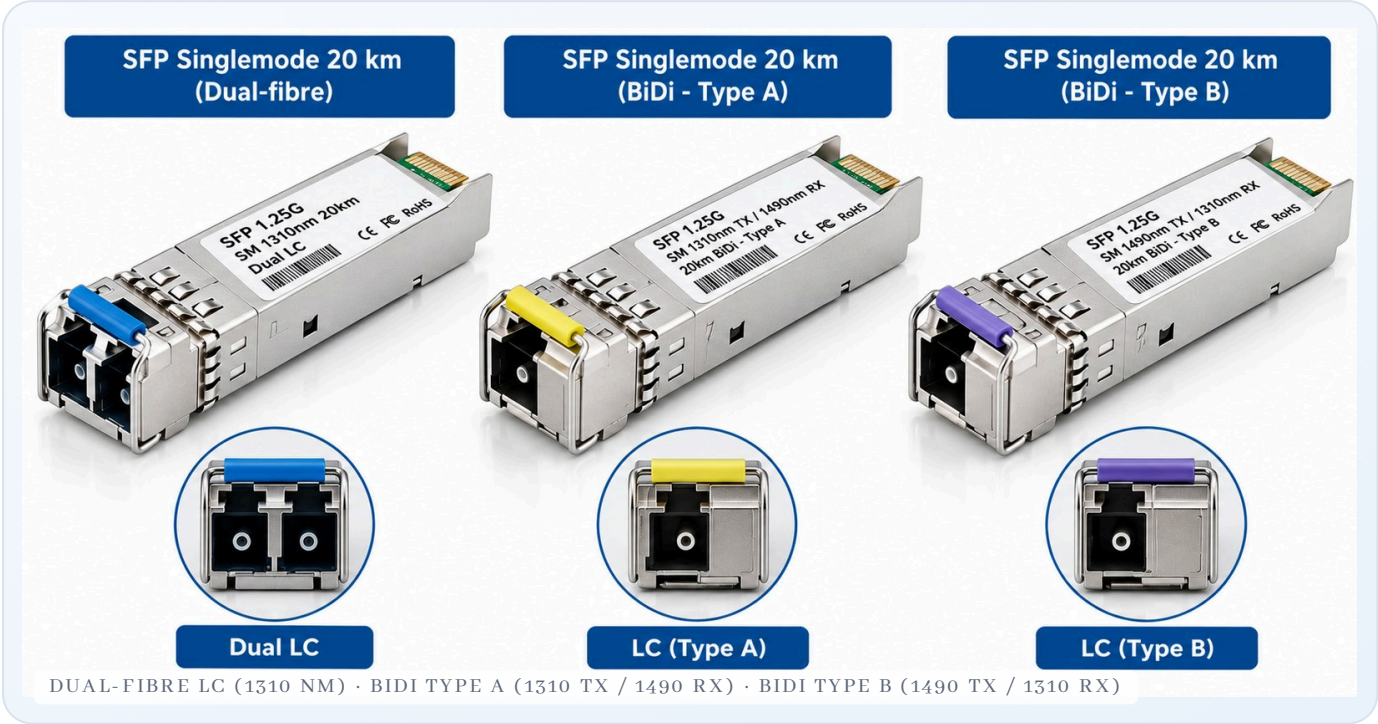
PRODUCT DATASHEET

Fibre Optic Active Equipment

SFP Singlemode 20 km

1.25 Gbps | Dual-fibre | BiDi A/B | 20 km | Cisco Compatible



DUAL-FIBRE LC (1310 NM) · BIDI TYPE A (1310 TX / 1490 RX) · BIDI TYPE B (1490 TX / 1310 RX)

iSHCO 1.25 Gbps SFP transceivers deliver **Gigabit Ethernet over singlemode fibre** up to 20 km. Choose the **dual-fibre** LC module (1310 nm) or the **BiDi** pair (Type A + Type B) that runs both directions over a single fibre.

All modules are hot-pluggable, fully compliant with the SFP MSA and SFF-8472 digital diagnostics (DDM), and coded for compatibility with Cisco and most other major switch platforms. BiDi modules must be used in A/B pairs.

SFP | 1000BASE-LX | SM 9/125 | LC | DDM | Hot-plug

Features & Benefits

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- 1.25 Gbps Gigabit Ethernet / 1000BASE-LX over singlemode fibre
- BiDi Type A: 1310 nm TX / 1490 nm RX · Type B: 1490 nm TX / 1310 nm RX, simplex LC
- Digital Diagnostic Monitoring (DDM / DOM) per SFF-8472
- Metal housing with coloured bail latch for easy identification
- Class 1 laser safety per IEC 60825-1 · RoHS compliant
- Dual-fibre module: 1310 nm DFB laser, duplex LC, up to 20 km
- BiDi pair saves 50% of fibre – one strand carries both directions
- Hot-pluggable, single +3.3 V supply, low power (< 1 W)
- Compatible with Cisco and other major vendors (custom coding on request)
- Operating temperature 0 °C to +70 °C (industrial –40 to +85 °C on request)

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LOCATION
Erbil, Sultan Muthafar

SCAN TO VISIT

SFP Singlemode 20 km

FIBRE OPTIC ACTIVE EQUIPMENT

Specifications | Ordering Guide

Technical Specifications

02

Parameter	Specification
Form factor	SFP (SFP MSA)
Data rate	1.25 Gbps
Fibre	Singlemode 9/125 µm, OS1 / OS2
Reach	20 km
Connector	Dual-fibre: duplex LC · BiDi: simplex LC
Wavelength – dual-fibre	1310 nm TX / 1310 nm RX
Wavelength – BiDi A / B	A: 1310 TX / 1490 RX · B: 1490 TX / 1310 RX
TX power	−9 to −3 dBm
RX sensitivity	≤ −22 dBm
Link budget	≥ 13 dB
Laser	DFB, Class 1 (IEC 60825-1)
DDM	Yes (SFF-8472)
Supply	+3.3 V, < 1 W
Operating temperature	0 °C to +70 °C
Dimensions	56.5 × 13.4 × 8.5 mm

Ordering Information

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Part No.	Description	Wavelength	Connector
ISH-SFP-1G-LX-20	1.25G SFP, singlemode, dual-fibre, 20 km, DDM	1310 nm	Duplex LC
ISH-SFP-1G-BX-20A	1.25G BiDi SFP, singlemode, 20 km, Type A, DDM	1310 TX / 1490 RX	Simplex LC
ISH-SFP-1G-BX-20B	1.25G BiDi SFP, singlemode, 20 km, Type B, DDM	1490 TX / 1310 RX	Simplex LC

APPLICATIONS

- Gigabit Ethernet uplinks between buildings and sites
- FTTx and ISP access networks
- CCTV / IP video backhaul over fibre
- Campus and metro fibre links up to 20 km

STANDARDS & COMPLIANCE

- SFP MSA (INF-8074i)
- SFF-8472 (DDM)
- IEEE 802.3z 1000BASE-LX
- IEC 60825-1 Class 1
- RoHS · CE · FCC

PACKAGE CONTENTS

- 1 × SFP transceiver
- Dust plug fitted
- Anti-static packaging · BiDi sold as A/B pairs

Note: Specifications are typical values and may be improved without notice. For custom lengths, colours, quantities or OEM requirements please contact the iSHCO team using the details below.

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