

Product Overview

SFP-Transceiver for extended temperature range



Description

The majority of all active network devices are now equipped with modular optical interfaces in the form of SFP ports. For the user this permits the highest possible flexibility in terms of network configuration.

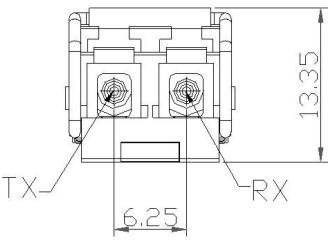
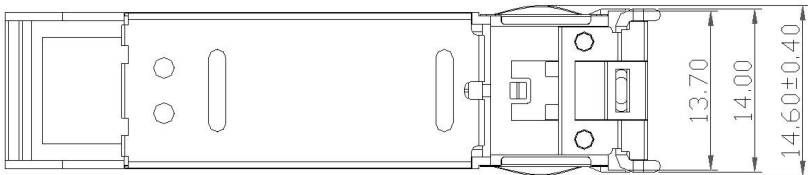
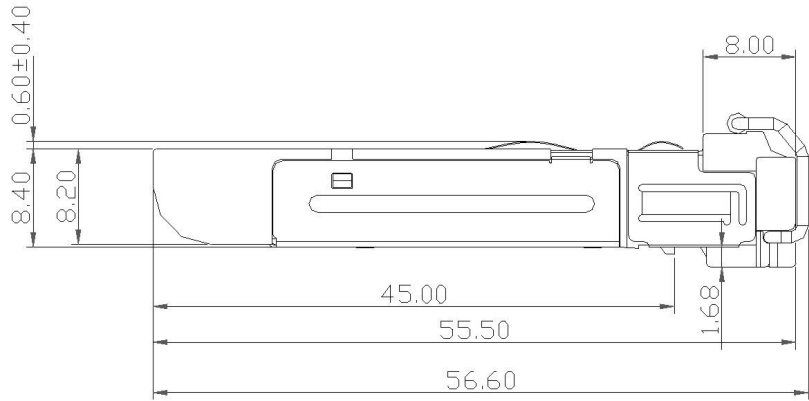
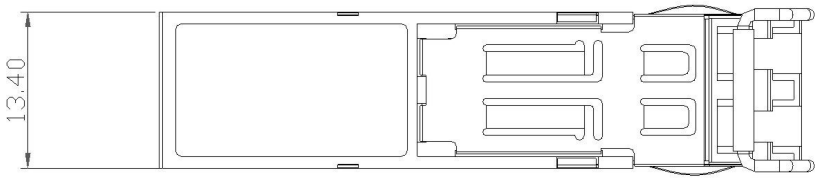
MICROSENS provides a special range of SFP transceivers with extended temperature range especially for the insertion into network devices intended for operation in rough environments. The temperature range for operation is from -40 to +85 °C.

These SFP transceivers generally have an integrated digital diagnostics function and, depending on the version, are designed for Fast Ethernet (100Base-FX) or Gigabit Ethernet (1000Base-SX/LX). Multimode and single mode versions with different optical budget are available.

Properties

- Extended temperature range -40..+85 °C
- Installation during operation (hot swap)
- Versions for Fast Ethernet and Gigabit Ethernet
- Simplex WDM option (simplex fiber)
- Digital diagnostic functions

Dimensions



Specifications

General

Type	Small form-factor pluggable (SFP) Transceiver with extended temp. range
Performance	Fast Ethernet or Gigabit-Ethernet (see article-no.)
Management	Digital diagnostic functions

Power Supply (DC)

Input Voltage	3,3 V
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Mechanical

Dimensions	56,6 mm x 14 mm x 8,4 mm (L x H xW)
Weight	17 g
Mounting	For SFP slots

Optical Parameter

Number of Ports	1
Fiber Cable Type	Multimode: 50 or 62.5/125 µm fiber Single Mode: 9/125 µm fiber
Connector	1x LC duplex

Environment

Operating Temperature	-40..+85°C
Storage Temperature	-40..+85°C

Standards Compliance

Other	CDRH IEC 825-1 class 1 eye safety MultiSource Agreement (MSA)
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Order Information

Description	Article Number
Fast Ethernet	
SFP Fast Ethernet Transceiver 100Base-FX, Multimode 1310nm, digital Diagnostics, -40..85°C	MS100190DX
SFP Fast Ethernet Transceiver 100Base-FX, Monomode 1310nm, digital Diagnostics, -40..85°C	MS100191DX
Gigabit Ethernet	
SFP Gigabit Ethernet Transceiver 1000Base-SX, Multimode 850nm, digital Diagnostics, exten. temp.-range: -40..85°C	MS100200DX
SFP Gigabit Ethernet Transceiver 1000Base-LX, Single Mode 1310nm, digital Diagnostics, -40..85°C	MS100210DX
SFP Gigabit Ethernet Transceiver 1000Base-LX, Single Mode 1310nm, min. 25km, digital Diagnostics, -40..85°C	MS100211DX
WDM (Simplex)	
SFP Pluggable Transceiver Fast Ethernet BiDi WDM Monomode LC simplex Tx: 1310nm Rx: 1550nm, min 20km, -40..75°C	MS100191DXA
SFP Pluggable Transceiver Fast Ethernet BiDi WDM Monomode LC simplex Tx:1550nm Rx: 1310nm, min 20km, -40..75°C	MS100191DXB
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 11dB/10km, Tx: 1310nm, Rx: 1550nm, digital Diagnostics, -40..85°C	MS100221DXA
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 11dB/10km, Tx: 1550nm, Rx: 1310nm	MS100221DXB
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single mode 11dB/10km, Tx: 1310nm, Rx: 1490nm, -40..+85°C	MS100222DXA
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single mode 11dB/10km, Tx: 1490nm, Rx: 1310nm, -40..+85°C	MS100222DXB
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single mode 13dB/20km, Tx: 1310nm, Rx: 1490nm, -40..+85°C	MS100223DXA
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 13dB/20km, Tx: 1490nm, Rx: 1310nm digital Diagnostics, -40..85°C	MS100223DXB
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 19dB/40km, Tx: 1310nm, Rx: 1550nm, digital Diagnostics, -40..85°C	MS100224DXA
SFP Gigabit Ethernet Transceiver 1000Base-BX, LC-simplex Single Mode 19dB/40km, Tx: 1550nm, Rx: 1310nm, digital Diagnostics, -40..85°C	MS100224DXB
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 23dB/60km, Tx: 1310nm, Rx: 1550nm digital Diagnostics, -40..85°C	MS100225DXA
SFP Gigabit Ethernet Transceiver 1000Base-BX, Single Mode 23dB/60km, Tx: 1310nm, Rx: 1550nm digital Diagnostics, -40..85°C	MS100225DXB

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