

# SFP+ Transceiver

## Contact

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## LANactive SFP+ Transceiver

- SFP+ Modules
- Class 1 Laser Safety Compliance
- Hot-swap pluggable capability
- SFP MSA specification and SFF-8472 compliant
- Wide operating temperature range, -40 to +85°C



## Description

Nexans Small Form Factor Pluggable (SFP+) transceiver are designed for the usage in LANactive FTTO and Industrial switches supporting 1 and 10 Gigabit Ethernet. Nexans SFPs are supporting several wavelength and are optimized for different distances and various applications.

All Nexans SFP+ modules are supporting Digital Diagnostic Monitoring (DDM) and allow the monitoring of the internal transceiver and link parameter. In combination with Nexans SFP+ transceiver, all LANactive FTTO and Industrial switches are capable to setup the internal alarm thresholds for the SFP+ automatically.

Nexans SFP+ transceiver are compliant with SFP MSA (Multi-Source Agreement) and SFF-8472. All SFPs meet Class I Laser Safety requirements in accordance with IEC-825.

**LANactive**  
Switch to the future

## EEPROM Informationen

Name of Field	General or Specific
Vendor Name	General
Part Number	General
Revision Number	General
Serial Number	General
Date Code	General
Bit Rate (Mbps)	General
Wavelength (nm)	General
Fibre Length 9µm (m)	General
Fibre Length 50µm (m)	General
Fibre Length 62.5µm (m)	General
Connector Description	General
Measured Temperature (deg celsius)	General
Measured Power Supply Voltage (mV)	General
Measured Laser Bias Current (mV)	General
Measured TX Output Power (dBm)	General
Measured RX Input Power (dBm)	General
Allowed Temperature Range (deg celsius)	Nexans Specific
Allowed Laser Bias Current Range (mA)	Nexans Specific
Allowed RX Input Power Range (dBm)	Nexans Specific
Allowed TX Output Power Range (dBm)	Nexans Specific

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## Specification

### General Specification

### Valid for all Types

Transceiver Type	Hot-pluggable SFP+ footprint compliant to SFF-8431
Power Supply Voltage	3.3V
Data Rate	10,000 / 1,000 Mbps
Digital Diagnostic Monitoring	Yes, MSA SFF-8472
Ambient Temperature	Operation: -40 ... 85°C, Storage: -20 ... 85°C
Relative Humidity	5 - 95% (non-condensing)
Laser Safety	Compliant with IEEE802.3ae Class I

### CE - Conformity

Electro Magnetic Capability Directive	2014/30/EU
RoHS 2	2011/65/EU

### Engineering Standards

Electrostatic Discharge (ESD)	IEC/EN 61000-4-2
Electromagnetic Interference (EMI)	FCC Part 15 Class B EN 55022, Class B (CISPR 22A)
Laser Eye Safety	FDA 21CFR 1040.10, 1040.11, IEC/EN 60825-1, 2
Component Recognition	IEC/EN 60950, UL
EMC	EN 61000-3

Article Number	Ethernet Standard	Fibre Type	Wavelength [nm]		Distance
			TX	RX	
88646390	10GBase-SR	Multimode, duplex	850	850	400m@OM4 300m@OM3 80m@OM2 30m@OM1
88646391	10GBase-LR	Singlemode, duplex	1310	1310	10km
88646392	10GBase-BX-U	Singlemode, BiDi	1270	1330	10km
88646393	10GBase-BX-D	Singlemode, BiDi	1330	1270	10km