

## LANactive SFP Transceiver

- 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

Aginode Small Form Factor Pluggable (SFP) transceiver are designed for the usage in LANactive FTTO and Industrial switches.

Aginode SFPs are supporting several wavelength and are optimized for different distances and various applications.

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

Aginode 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

## EEPROM Information

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 (mA)	General
Measured TX Output Power (dBm)	General
Measured RX Input Power (dBm)	General
Allowed Temperature Range (deg celsius)	Aginode Specific
Allowed Laser Bias Current Range (mA)	Aginode Specific
Allowed RX Input Power Range (dBm)	Aginode Specific
Allowed TX Output Power Range (dBm)	Aginode Specific

## Specification

General Specification	Valid for all types
Transceiver Type	Hot-pluggable SFP footprint compliant to SFF-8074i
Power Supply Voltage	3.3V
Data Rate	1,000 / 100 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	
908761	100Base-FX	Multimode, duplex	1310	1310	2km
903561	100Base-LX10	Singlemode, duplex	1310	1310	10km
903560	1000Base-SX	Multimode, duplex	850	850	550m
903569	1000Base-LX	Singlemode, duplex	1310	1310	10km
903570	1000Base-LH	Singlemode, duplex	1310	1310	40km
903571	1000Base-ZX	Singlemode, duplex	1550	1550	85km
a. A.	1000Base-ZX	Singlemode, duplex	1550	1550	120km
a. A.	1000Base-ZX	Singlemode, duplex	1550	1550	160km
a. A.	1000Base-CWDM	Singlemode, duplex	1470	1470	40km
a. A.	1000Base-CWDM	Singlemode, duplex	1490	1490	40km
903572	1000Base-BX-U	Singlemode, BiDi	1310	1550	10km
903573	1000Base-BX-D	Singlemode, BiDi	1550	1310	10km
a. A.	1000Base-BX-U	Singlemode, BiDi	1310	1550	40km
a. A.	1000Base-BX-D	Singlemode, BiDi	1550	1310	40km
907756	1000Base-T	-	-	-	100m