

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

Aginode Small Form Factor Pluggable (SFP+) transceiver are designed for the usage in LANactive FTTO and Industrial switches supporting 1 and 10 Gigabit Ethernet.

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

All Aginode SFP+ modules are supporting Digital Diagnostic Monitoring (DDM) and allow the monitoring of the internal transceiver and link parameter. In combination with Aginode SFP+ transceiver, 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 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) | 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-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: -40 ... 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 | |
| 908798 | 10GBase-SR | Multimode, duplex | 850 | 850 | 400m@OM4 300m@OM3 80m@OM2 30m@OM1 |
| 908799 | 10GBase-LR | Singlemode, duplex | 1310 | 1310 | 10km |
| 908800 | 10GBase-BX-U | Singlemode, BiDi | 1270 | 1330 | 10km |
| 908801 | 10GBase-BX-D | Singlemode, BiDi | 1330 | 1270 | 10km |