

## 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 IEEEE802.3ae 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   |          |
| 88646010       | 100Base-FX        | Multimode, duplex  | 1310            | 1310 | 2km      |
| 88646011       | 100Base-LX10      | Singlemode, duplex | 1310            | 1310 | 10km     |
| 88646015       | 1000Base-SX       | Multimode, duplex  | 850             | 850  | 550m     |
| 88646016       | 1000Base-LX       | Singlemode, duplex | 1310            | 1310 | 10km     |
| 88646017       | 1000Base-LH       | Singlemode, duplex | 1310            | 1310 | 40km     |
| 88646018       | 1000Base-ZX       | Singlemode, duplex | 1550            | 1550 | 85km     |
| 88646019       | 1000Base-ZX       | Singlemode, duplex | 1550            | 1550 | 120km    |
| 88646221       | 1000Base-ZX       | Singlemode, duplex | 1550            | 1550 | 160km    |
| 88646447       | 1000Base-CWDM     | Singlemode, duplex | 1470            | 1470 | 40km     |
| 88646449       | 1000Base-CWDM     | Singlemode, duplex | 1490            | 1490 | 40km     |
| 88646073       | 1000Base-BX-U     | Singlemode, BiDi   | 1310            | 1550 | 10km     |
| 88646075       | 1000Base-BX-D     | Singlemode, BiDi   | 1550            | 1310 | 10km     |
| 88646133       | 1000Base-BX-U     | Singlemode, BiDi   | 1310            | 1550 | 40km     |
| 88646135       | 1000Base-BX-D     | Singlemode, BiDi   | 1550            | 1310 | 40km     |
| 88646226       | 1000Base-T        | -                  | -               | -    | 100m     |