OPTICAL MODULES · SFP TRANSCEIVER

ALMOD-MGSX550-D

1000Base-SX+ SFP Module (MM, 550m)

The Antek Labs ALMOD-MGSX550-D is a hot-pluggable SFP optical transceiver compliant with the SFP MSA and SFF-8472 Digital Diagnostic Monitoring interface. 1000Base-SX+ SFP Module (MM, 550m). It provides full DDM telemetry, Class-1 laser safety and low power consumption for switches, media converters, routers and server interfaces.

KEY FEATURES

- Hot-pluggable SFP form factor, compliant with SFP MSA and SFF-8472.
- Digital Diagnostic Monitoring (DDM) — optical power, temperature, voltage and bias telemetry.
- Class-1 laser safety; low EMI and excellent ESD protection.
- Low power consumption (< 1 W); compatible with Antek and standard SFP host ports.

GENERAL

Type	1000Base-SX+ SFP Module (MM, 550m)
Data rate	1.25 Gbps
Form factor	SFP / SFP+ (hot-pluggable, MSA)
Connector	Duplex LC
Fiber / media	Multi-mode
Wavelength (Tx)	850 nm
Reach	550m

TRANSMITTER

Average output power	850 to -3 dBm
RMS spectral width	4 nm (max, RMS)
Laser / safety	FP/DFB laser, Class 1 (IEC 60825)

RECEIVER

Input overload	≥ -3 dBm
Detector	PIN photodiode with TIA

ELECTRICAL & DIAGNOSTICS

Supply voltage	3.3 V
Supply current	300 mA (max)
Power consumption	< 1 W
DDM	SFF-8472 Digital Diagnostic Monitoring
Compliance	SFP MSA, SFF-8472; IEEE 802.3z / 802.3ae (rate-dependent)

ENVIRONMENTAL

Operating temperature	0 C to +70 C
Storage temperature	-40 C to +85 C

WARRANTY

Warranty	1 year, lifetime support

ORDERING INFORMATION

ALMOD-MGSX550-D 1000Base-SX+ SFP Module (MM, 550m).

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