

OPTICAL MODULES • SFP TRANSCEIVER

ALMOD-IMGLX40-D

Industrial 1.25G SFP Optical Transceiver (SM, 40Km)

The Antek Labs ALMOD-IMGLX40-D is a hot-pluggable SFP optical transceiver compliant with the SFP MSA and SFF-8472 Digital Diagnostic Monitoring interface. Industrial 1.25G SFP Optical Transceiver (SM, 40Km). 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	Industrial 1.25G SFP Optical Transceiver (SM, 40Km)
Data rate	1.25Gbps/1.0625Gbps
Form factor	SFP / SFP+ (hot-pluggable, MSA)
Connector	Duplex LC
Fiber / media	Single-mode
Wavelength (Tx)	1270–1360 nm (typ 1310 nm)

TRANSMITTER

Average output power	-9 to -3 dBm
Extinction ratio	9 dB (min)
RMS spectral width	0.65 nm (max, RMS)
Laser / safety	FP/DFB laser, Class 1 (IEC 60825)

RECEIVER

Receiver sensitivity	≤ -22 dBm
Input overload	≥ -3 dBm
Detector	PIN photodiode with TIA

ELECTRICAL & DIAGNOSTICS

Supply voltage	3.3 V (3.13–3.47 V)
Supply current	220 mA (max)
Power consumption	< 1 W
DDM	SFF-8472 Digital Diagnostic Monitoring

Compliance	SFP MSA, SFF-8472; IEEE 802.3z / 802.3ae (rate-dependent)
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ENVIRONMENTAL

Operating temperature	-40~+85°C
Storage temperature	-40 C to +85 C

WARRANTY

Warranty	1 year, lifetime support
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ORDERING INFORMATION

ALMOD-IMGLX40-D Industrial 1.25G SFP Optical Transceiver (SM, 40Km).

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