

### MEGANet Single Mode Gigabit SFP Module I Commercial

The MEGANet Commercial Single Mode Gigabit SFP Module is a cost-effective, high-performance transceiver compliant with the SFP Multi-Source Agreement (MSA). Supporting data rates up to 1.25Gbps, it integrates a 1310nm FP laser transmitter and InGaAs PIN photodiode receiver for reliable optical-to-electrical conversion. Full MSA compliance ensures standardized dimensions, interfaces, and optical connections, guaranteeing seamless interoperability across a wide range of network equipment.

#### Features

- Commercial rated device
- 1310nm FP laser emission wavelength
- InGaAs PIN photodiode receiver
- Supports data rates up to 1.25Gbps
- Dual LC optical receptacle
- Single 3.3V power supply
- Differential LVPECL input/output interface
- TTL signal detection
- Operating temperature – 0°C to 70°C
- Fully compatible with MSA-Compliant devices (SFP MSA Compliant)



#### Applications

- Fibre Channel communication
- Switch-to-switch or router-to-router uplinks
- Media converter modules
- Telecom optical transmission systems

#### Standard Compliance

- Small Form-factor Pluggable Multi-Source Agreement (SFP MSA)
  - Compliant with mechanical, electrical, and optical standards to ensure full interoperability with other MSA-compliant devices

#### Technical Specifications

Description	Value
Form Factor	SFP
Data Rate	1.25Gbps
Wavelength	1310 nm
Laser	Fabry-Pérot
Optical Power	-9.5 ~ -3 dBm
Receiver	InGaAs PIN photodiode with integrated Transimpedance Amplifier (PIN+TIA)
Sensitivity	< -21 dBm
Working Temperature	0°C to 70°C
Reach	20 Km
Interface	LC Duplex

#### Order Information

Product Code	Description
A-BT10-B00900	MEGANet SFP Module I Commercial I Single Mode I 20km I 1.25Gbps I LC Connector

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