Angora Networks

5G SFP's

Increasing processing power and inventions in data communications, need to be supported with matching technologies on transmission networks.

Large data generation rates on data centers first leads to higher I/O rates on storage networks, and requires constantlty increasing speed to reach billions of endpoints via high speed wired links, and now with the introduction of 5G networks via wireless communication infrastructure.

Angora Networks, wide range of 25G and 100G high density and low power consumption, small form pluggables, provides required connectivity for all different applications, such as, Infiniband, High Performance Computing Clusters, High-End Servers, Fiber Channel, Metro Ethernet networks, SONET, 5G Backhaul connectivity, and Data Center connections. We are working with top level manufacturers, to build our own SFP, with highest possible quality.

Optical and copper modules can be used on all industry standard models, with different flavors based on your bandwidth and cabling requirements. All models are RoHS compatible, hot pluggable, have single +3.3V power supply voltage and all-metal housing.

25Gbps SR SFP28 Optical Transceiver

25Gb/s Enhanced Small Form Factor Pluggable SFP28 transceivers are designed for use in 25GBASE-SR Ethernet links up to 100m over Multi Mode fiber(OM4). They are compliant with SFF-8431, SFF-8432 and IEEE 802.3 aq. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

- 25GBASE-SR Ethernet
- InfiniBand QDR, FDR, EDR
- Servers, switches, storage and host card adapters
- Electrical interface compliant to SFF-8431
- 850nm VCSEL laser and PIN photo-detector
- Maximum link length of 70m on OM3 MMF and 100m on OM4 MMF

25G SFP28 Passive Direct Copper Cables

The 25G passive copper cable is a high speed, cost-effective 25Gbp/s Ethernet connectivity solution designed to meet the growing needs for higher bandwidth in data centers.
The 25G passive copper cable contains a single high-speed copper pair, operating at data rates of up to 28.05 Gb/s. The cables are compliant with IEEE P802.3by Ethernet standard and SFF-8402 SFP28 standard. Each SFP28 connector comprises an EEPROM providing product information which can be read by the host system.

- 25G Ethernet
- InfiniBand,
- 32x Fiber Channel, SONET Multi-platform support
- High Performance Computing Clusters, High-End Servers
- Metro Network Switch/Cross Connect
- Up to 28.05Gb/s data rate SFF-8402 Compliant
- Operating case temperature of 0-70 °C
- Single 3.3V supply voltage
- BER better than 10^-13

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General Specifications

SFP Model	SFP Type	Connector Type	Max Bandwidth	Cable Type	Distance
25Gbps SR SFP28	25 GBASE-SR	25GBASE-SR	25 Gbps	Multi mode fiber	100m
25G SFP28 Passive	25 GBASE-Copper	CAT5	25 Gbps	Copper	-
25Gbps SFP28 AOC	1000 Base-LX SFP	25GBASE-SR Ethernet	25 Gbps	Multi mode fiber	-

Optical Specification

SFP Model	Wavelength (nm)	Fiber Type	Distance(m)
25Gbps SR SFP28	850	Multi Mode	100
25G SFP28 Passive	-	Copper	10
25Gbps SFP28 AOC	850	Multi Mode	100

Dimensions & Environmental Conditions

Dimensions (H x W x D): 10.8 x 13.7 x 56.6 mm.
Weight: 70 grams
Commercial temperature range (COM): 0 to 70°C (32 to 158°F)

Ordering Information

25Gbps SR SFP28	25G SFP28 850nm 100m Transceiver
25G SFP28 Passive	25G SFP28 DAC
25Gbps SFP28 AOC	25G SFP28 to SFP28 AOC

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