

Amphenol

COMMUNICATIONS SOLUTIONS

Enabling the Electronics Revolution

Amphenol Products in the CMIS Demonstration



Optics: XGIGA Transceiver QSFP DD FR4 400Gb, P/N QD27PD4-10D

The 400GBASE-FR4 module, Duplex LC connector has a range up to 2km over parallel single-mode fiber. It is compliant with the following standards and MSA's: IEEE 802.3bs, 400GBASE-FR4 Spec of 100G Lambda MSA group, and 400GAUI-8/CEI-56G-VSR-PAM4 standard. The 400 Gb Ethernet signal is carried over four CWDM grid optical wavelengths. Multiplexing demultiplexing of the four wavelengths are managed within the device.

FEATURES:

Single 3.3 V power supply

Power dissipation < 10 W

Up to 2 km over SMF fiber

QSFP-DD MSA compliant

8x53.125 Gbps (PAM4) electrical interface

Duplex LC connector

Case operating temperature range of 0°C to 70°C

Adheres to OIF-CMIS rev5.0

RoHS compliant



Direct Attached Copper Cables (DAC's): OSFP NJMMER-0001, NJMMER-0002, OSFP to QSFP-DD NJYYE6-0005

Amphenol is among industry leaders in OSFP cable development. Our Electronics Products 'Product of the Year' award winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are compatible with 25G/lane channel NRZ up to 224G/lane channel PAM4 signaling protocols that allow the cables to deliver aggregate bandwidths of 200G, 400G, and 800G, 1.6T per cable assembly. Available in both Passive and Active variants

FEATURES:

Configurable & flexible

EEPROM in cable assembly

Custom solutions supported

Integrated heat sink and air flow channels as part of module design

112G Passive copper length to 2 meters

And Active copper length to 4 meters

Optimized PCB interface board with auto soldering process

Assembled with industry leading twin-axial SKEWCLEAR®

8-pair or 16-pair wire

25AWG - 32AWG cable sizes

RoHS2 compliant

224G Passive copper length to 1 meter

15 watt single port dissipative heat capacity



Amphenol Products in the CEI Demonstrations



Optics: XGIGA LPO OSFP 800G, P/N OP13LD8-02D

OP13LD8-02D 800G OSFP 2xDR4+ transceiver modules are designed for use in 800G Ethernet links on up to 2km of single mode fiber. Forward error correction (FEC) is required to be implemented by the host in order to ensure reliable system operation. They are compliant with the OSFP MSA, IEEE802.3cu, and adhere to OIF CMIS.

Features:

Support 106.25 Gb/s Data rate per channel	Electrically hot-pluggable
Single 3.3V power supply	Digital Diagnostics Monitoring Interface
Integrated Silicon photonics modulator chip 1310nm High-power DFB Laser / 1310nm PIN Array for up to 2km reach over SMF	
Dual Duplex MPO-12 optical receptacle	Case operating temperature range:0°C to 70°C
Power dissipation < 8.5 W (Typical 8W)	Compliant to ROHS REFERENCE STANDARD
Compliant to OSFP MSA rev5.0	Adheres to OIF-CMIS rev5.0
Compliant to IEEE 802.3cu-2021	

Direct Attached Copper Cables (DAC's): OSFP 224G DAC P/N NJMMRU-0001 1.0m, OSFP 112G DAC P/N NJMMEK-001

Amphenol is among industry leaders in 224Gb OSFP & 112GB OSFP cable development. Our Electronics Products 'Product of the Year' award- winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are compatible with 224G/lane channel PAM4 signaling protocol that allow the cables to deliver aggregate bandwidths including 224G.

Amphenol is among industry leaders in OSFP cable development. Our Electronics Products 'Product of the Year' award winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are compatible with 25G/lane channel NRZ up to 224G/lane channel PAM4 signaling protocols that allow the cables to deliver aggregate bandwidths of 200G, 400G, and 800G, 1.6T per cable assembly. Available in both Passive and Active variants

FEATURES:

Configurable & flexible	Optimized PCB interface board with auto soldering process
EEPROM in cable assembly	Assembled with industry leading twin-axial SKEWCLEAR®
Custom solutions supported	8-pair or 16-pair wire
Integrated heat sink and air flow channels as part of module design	25AWG - 32AWG cable sizes
112G Passive copper length to 2 meters	RoHS2 compliant
And Active copper length to 4 meters	224G Passive copper length to 1 meter
	15 watt single port dissipative heat capacity