NEXANS DATA CENTER SOLUTIONS

TRANSCEIVERS AND HIGH SPEED INTERCONNECTS

Nexans

High Speed Interconnect

Active Optical Cable (AOC)

The Nexans family of Active Optical Cables provides a high performance, low power, ultra-reliable solution that is optimal for data center 40GBE, 100GBE and Infiniband QDR connections. All products are compliant to the IEEE and SFF industry standards and include digital diagnostics functions.

40G QSFP+ Active Optical Cable

AQPM40Gxxx

(xxx is length in meters)

- 1m – 20m QSFP+ to QSFP+ 4x10G parallel multi-mode active optical cable (longer lengths available upon request)
- Compliant with IEEE 802.3ba 40GBASE-SR4 and SFF-8436
- 4-channel up to 11.2GBps parallel transmission for 40GBase Ethernet, SDR, QDR Infiniband
- Hot Pluggable QSFP+ footprint
- Small bend radius for easy fiber installation and management
- Robust mechanical peformance
- Built-in real time digital diagnostics monitoring
- Power consumption < 1.5W per module
- Operating temperature range 0 to 70C

100G QSFP28 Active Optical Cable

AQPM100Gxxx

(xxx is length in meters)

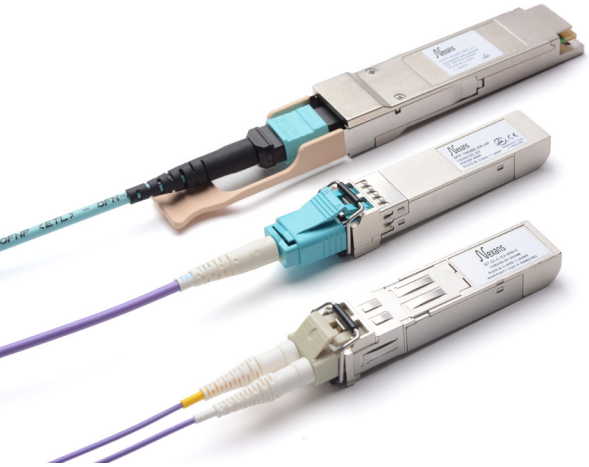
- 1m – 20m QSFP28 to QSFP28 4x25G parallel multi-mode active optical cable (longer lengths available upon request)
- Compliant with IEEE 802.3bm 1000GBASE-SR4 and SFF-8436
- 4-channel up to 25GBps parallel transmission for 100GBase Ethernet, FDR/EDR Infiniband
- Hot Pluggable QSFP+ footprint
- Small bend radius for easy fiber installation and management
- Robust mechanical peformance
- Built-in real time digital diagnostics monitoring
- Power consumption < 2.5W per module
- Operating temperature range 0 to 70C

Transceivers

Introduction

Maximize performance. In recent years, the number of transceiver options has dramatically increased. Since the transceiver decision has a direct impact on the cabling infrastructure (and vice versa), transceiver and cabling decisions should be considered together.

In addition, ever-increasing bandwidth demand continues to drive changes to your network and data center. In fact, in the coming years, you will surely need more servers, more switches and more storage capacity connected at higher data rates. That's why it's so important to "own the link."



What does that mean? In the past, transceivers have been purchased from equipment manufacturers, but since a transceiver's performance has more to do with the cabling than the equipment, it makes more sense to specify the cable and transceivers together. That way, you own the entire link.

Why Nexans for Transceivers? Nexans are leaders in the cabling industry and have a deep understanding of fiber and cabling performance. Nexans writes and tests transceivers to specifications beyond industry standards to maximize the transceiver + cable link performance, and combines this performance evaluation with cost and quality to bring the greatest value from the transceiver vendor community to our data center customers. Our optical experts are also ready to understand and assist with unique challenges in the data center network and work to deliver the right active optics and cabling solution.

100G QSFP28

QSFP-100GBE-SR4

- Compliant with IEEE 802.3bm 100GBASE-SR4
- Uncooled 850 nm VCSEL laser transmitter
- 12-fiber MPO connector
- Power consumption < 2.5 Watts

QSFP-100GBE-CW4

- Compliant with 100G-CWDM4 MSA and IEEE Electrical Interface
- RS FEC
- 1310 nm DFB laser transmitter, 2km
- 2-fiber Duplex LC connector
- Power consumption < 3.5 Watts

QSFP-100GBE-PSM4

- Compliant with 100G PSM4 MSA and IEEE 802.3bm Electrical Interface
- 1310 nm DFB laser transmitter, PSM4, 2 km
- 12-fiber MPO connector
- Power consumption < 3.5 Watts

100 Gb Ethernet QSFP28 Transceiver

- 4 channel 25.78125 GBd bi-directional transceiver module
- Compliant with IEEE 802.3bm 100GBASE XLPPI Electrical Interface and SFF8655
- Hot-pluggable QSFP28 footprint
- Built-in real-time digital diagnostics monitoring
- Class 1 laser product complies with EN 60825-1
- Enhanced performance when used in conjunction with Nexans GIGAlite glass
- Operating temperature range: 0°C to 70°C

Transceivers

40G QSFP+

QSFP-40GBE-LR4

- Compliant with IEEE 802.3ba 40GBASE-LR4
- 1310 nm DFB laser transmitter, 10 km
- 2-fiber Duplex-LC
- Power consumption < 3.5 Watts

QSFP-40GBE-LR4L

- Compliant with IEEE 802.3ba 40GBASE-LR4
- 1310 nm DFB laser transmitter, 2km
- 2-fiber Duplex LC connector
- Power consumption < 3.5 Watts

QSFP-4X10G-LR

- Compliant with IEEE 802.3ba 40GBASE-LR4
- 1310 nm DFB laser transmitter, PSM4, 2km
- 12-fiber MPO connector
- Power consumption < 3.5 Watts

40 Gb Ethernet QSFP+ Transceiver

- 4 channel 10.3125 GBd bi-directional transceiver module
- Compliant with IEEE 802.3ba 40GBASE XLPPI Electrical Interface and SFF8436
- Hot-pluggable QSFP footprint
- Built-in real-time digital diagnostics monitoring
- Class 1 laser product complies with EN 60825-1
- Enhanced performance when used in conjunction with Nexans GIGAlite glass
- Operating temperature range: 0°C to 70°C

10G SFP+

SFP-10GBE-LR

- 10.3125 GBd bi-directional data links
- Compliant with IEEE 802.3ae 10GBASE-LR, SFF-8431
- Single Mode, 10km reach
- Hot-pluggable SFP footprint
- Built-in digital diagnostics
- RoHS Compliant
- Operating temperature range: 0°C to 70°C

SFP-10GBE-SR

- 10.3125 GBd bi-directional data links
- Compliant with IEEE 802.3ae 10GBASE-SR, SFF-8431
- Multimode, up to 600 meter reach with GIGAlite10-XB optical fiber
- Hot-pluggable SFP footprint
- Built-in digital diagnostics
- RoHS Compliant
- Operating temperature range: 0°C to 70°C

10 Gb Ethernet SFP+ Transceiver

High Speed Interconnect

Passive Direct Attach Cables

Direct Attach Cable (DAC)

The Nexans family of Passive Direct Attach Cables provides a high performance, cost effective, and ultra-reliable solution for data center 10G, 40G, and 100G connectivity. All products are compliant to the IEEE and SFF industry standards and contain superior shielding for optimal EMI performance. The DAC cables come in variable lengths from 1 m to 5 m

10G SFP+ Direct Attach Cable

DAxxPS10Gyyy
(xx AWG, yyy Length)

- 1m – 5m SFP+ to SFP+ 10G DAC
- Compliant with IEEE 802.3, SFF-8431, SFF-8472
- 10.3125 Gb to 11.2 Gb bi-directional communication
- Hot Pluggable SFP+ footprint
- Robust Mechanical Performance
- 30AWG up to 3m. 28AWG 3.5m-5m.
- Operating temperature 0 to 70 degrees C

25G SFP28 Direct Attach Cable

DAxxPS25Gyyy
(xx AWG, yyy Length)

- 1m – 5m SFP28 to SFP28 25G DAC
- Compliant with IEEE 802.3bj, SFF-8402
- 25.78125 GB aggregate data rate
- Hot Pluggable SFP28 footprint
- Robust Mechanical Performance
- 30AWG up to 3m. 26AWG 3.5m-5m.
- Operating temperature 0 to 70 degrees C

40G QSFP+ Direct Attach Cable

DAxxPQ40Gyyy
(xx AWG, yyy Length)

- 1m – 5m QSFP+ to QSFP+ 40G DAC
- Compliant with IEEE 802.3ba, SFF-8436
- 4 channel 10.3125Gb to 11.2Gb bi-directional communication
- Hot Pluggable SFP+ footprint
- Robust Mechanical Performance
- 30AWG up to 3m. 26AWG 3.5m-5m.
- Operating temperature 0 to 70 degrees C

100G QSFP28 Direct Attach Cable

DAxxPQ100Gyyy
(xx AWG, yyy Length)

- 1m – 5m QSFP28 to QSFP28 100G DAC
- Compliant with IEEE 802.3bj, SFF-8665
- 100GB (4x25G Channel) data rate
- Hot Pluggable QSFP28 footprint
- Robust Mechanical Performance
- 30AWG up to 3m. 26AWG 3.5m-5m.
- Operating temperature 0 to 70 degrees C