

## QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 1M (3.28 ft.)

MODEL NUMBER: N28H-01M-AQ



QSFP28 cable connects high-speed 100 Gb switches, servers and other networking devices in data centers and enterprise wiring closets.

### Features

**QSFP28 Cable Connects Network Equipment at Speeds up to 100 Gbps** This one-meter (three-foot) QSFP28 Active Optical Cable (AOC) provides next-generation performance by combining four full-duplex 25 Gbps SFP channels into one affordable high-density package. Each male connector contains four independent 850 nm VCSEL-based transmitters and four independent receivers using PIN photo detectors inside. Each lane supports data transfer speeds up to 25 Gbps. Together, the N28H-01M-AQ provides an aggregated speed up to 100 Gbps, making it ideal for switches, servers, routers and other high-end networking equipment.

**Push/Pull Tab Connectors Provide Quick, Easy Connections** The hot-pluggable QSFP28 connectors include ergonomic push/pull tabs, which are easily accessible in high-density applications and make the cable easy to install and remove with just one hand.

**Engineered and Optimized for Bandwidth-Intense Applications** This QSFP28 active optical cable integrates a 100 Gbps Ethernet-optimized 38-position "board as connector" design. Die-cast zinc connectors offer superior EMI (electromagnetic interference) resistance and reduced crosstalk. The connectors have also been tested to meet stringent insertion loss standards. The cable is suitable for high-speed, short-reach dense data connections, such as 100GBASE-SR4 Ethernet, PCIe, Fibre Channel and InfiniBand applications. The plenum-rated OFNP jacket is designed for connecting network components in drop ceiling, walls and ducts.

**Fully Compliant and Compatible with the Latest Standards** This cable is fully compliant with the latest QSFP28 Multi-Source Agreement (MSA), IEEE 802.3bm standards and industry-standard SFF-8636 specifications. It is compatible with all QSFP and QSFP+ ports.

## Specifications

### Highlights

- Combines 4 full-duplex 25 Gbps SFP lanes for an aggregated 100 Gbps rate
- Ideal for switches, servers, routers and other high-end networking equipment
- Multi-platform support for 100 Gb Ethernet, InfiniBand, Fibre Channel and PCIe
- Ergonomic push/pull tabs allow easy one-handed connection and disconnection
- Compliant with QSFP28 MSA and SFF-8636 architecture for full QSFP compatibility

### Applications

- 25GBASE-SR and 100GBASE-SR4 Ethernet
- InfiniBand EDR (4x25G) and QDR (4x10G) with CDR turned off
- High-speed parallel interconnects for high-performance computing (HPC) and data center interconnects (DCI)
- Connect active network equipment in high-end server rooms or enterprise wiring closets

### System Requirements

- Network switch or other devices with QSFP or QSFP+ ports

### Package Includes

- N28H-01M-AQ QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 1 m (3 ft.)

### OVERVIEW

UPC Code

037332225580

Technology	Multimode
Optical Mode	OM3
Mode Type	Multimode
<b>PHYSICAL</b>	
Cable Jacket Color	Aqua
Cable Jacket Material	PVC
Cable Jacket Rating	OFNP
Cable Outer Diameter (OD)	2.9 mm
Clad Diameter (microns)	50
Core Diameter (microns)	125
Number of Fibers	8
Cable Length (ft.)	3.3
Cable Length (m)	1.01
Cable Length (in.)	39.4
Minimum Bend Radius	30 mm
Shipping Dimensions (hwd / in.)	0.00 x 0.00 x 0.00
Shipping Dimensions (hwd / cm)	0.00 x 0.00 x 0.00
Shipping Weight (lbs.)	0.00
Shipping Weight (kg)	0.00
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	32° to 158°F (0° to 70°C)
Storage Temperature Range	32° to 158°F (0° to 70°C)
Operating Humidity Range	5% TO 85% RH, Non-Condensing
Storage Humidity Range	5% TO 85% RH, Non-Condensing
<b>COMMUNICATIONS</b>	
Network Compatibility	100 Gbps
Wavelength	850nm; 1300nm
Attenuation @ 850NM	3.0dB/KM
Attenuation @ 1300NM	1.0dB/KM
IEEE Standards Supported	802.3BM
<b>CONNECTIONS</b>	
Side A - Connector 1	QSFP28 (MALE)
Side B - Connector 1	QSFP28 (MALE)

Connector Material	Zinc Alloy
<b>FEATURES &amp; SPECIFICATIONS</b>	
IP68 Rated	No
IP20 Rated	No
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	IEC 60825-1; UL Compliant (E347511)
Product Compliance	RoHS; REACH
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	1-year limited warranty