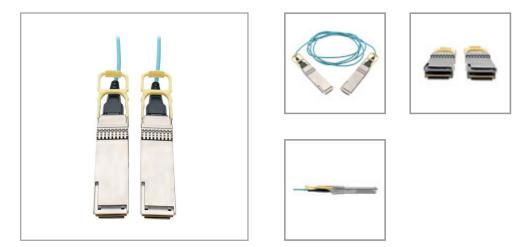




# QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 1M (3.28 ft.)

### 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 GbpsThis 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**

### SFP lanes for an aggregated 100 Gbps rate

**Highlights** 

 Ideal for switches, servers, routers and other high-end networking equipment

• Combines 4 full-duplex 25 Gbps

- 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 highperformance 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	
0011150510110		
CONNECTIONS		
Side A - Connector 1	QSFP28 (MALE)	
Side B - Connector 1	QSFP28 (MALE)	
Connector Material	Zinc Alloy	
PHYSICAL		
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 × 0.00 × 0.00	
Shipping Dimensions (hwd / cm)	0.00 × 0.00 × 0.00	
Shipping Weight (lbs.)	0.00	
Shipping Weight (kg)	0.00	
ENVIRONMENTAL		
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	
COMMUNICATIONS		
Network Compatibility	100 Gbps	
Wavelength	850nm; 1300nm	
Attenuation @ 850NM	3.0dB/KM	
Attenuation @ 1300NM	1.0dB/KM	
IEEE Standards Supported	802.3BM	





FEATURES & SPECIFICATIONS		
IP68 Rated	No	
IP20 Rated	No	
STANDARDS & COMPLIANCE		
Product Certifications	IEC 60825-1; UL Compliant (E347511)	
Product Compliance	RoHS; REACH	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	1-year limited warranty	

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