

# QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 10M (32.8 ft.)

MODEL NUMBER: N28H-10M-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 10-meter (32.8-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-10M-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

| OVERVIEW   |              |
|------------|--------------|
| UPC Code   | 037332225627 |
| Technology | Multimode    |

## 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-10M-AQ QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 10 m (32.8 ft.)



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|                                 |                              |
|---------------------------------|------------------------------|
| Optical Mode                    | OM3                          |
| Mode Type                       | Multimode                    |
| <b>CONNECTIONS</b>              |                              |
| Side A - Connector 1            | QSFP28 (MALE)                |
| Side B - Connector 1            | QSFP28 (MALE)                |
| Connector Material              | Zinc Alloy                   |
| <b>PHYSICAL</b>                 |                              |
| Color                           | Aqua                         |
| 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.)              | 32.8                         |
| Cable Length (m)                | 10.00                        |
| Cable Length (in.)              | 393.7                        |
| Minimum Bend Radius             | 30 mm                        |
| Shipping Dimensions (hwd / in.) | 12.00 x 9.10 x 0.50          |
| Shipping Weight (kg)            | 0.16                         |
| Unit Dimensions (hwd / in.)     | 12.000 x 9.100 x 0.500       |
| <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                      |



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| 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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