1000 Eaton Boulevard
Cleveland, OH 44122
United States

QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 20M (65.61 ft.)

MODEL NUMBER: **N28H-20M-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 20-meter (65.6-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-20M-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.

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-20M-AQ QSFP28 to QSFP28 Active Optical Cable - 100GbE, AOC, M/M, Aqua, 20 m (65.6 ft.)

Specifications

OVERVIEW	
UPC Code	037332225641

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Technology	Multimode
Optical Mode	OM3
Mode Type	Multimode
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.)	65.6
Cable Length (m)	20.00
Cable Length (in.)	787.4
Minimum Bend Radius	30 mm
Shipping Dimensions (hwd / in.)	0.00 x 0.00 x 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
CONNECTIONS	
Side A - Connector 1	QSFP28 (MALE)
Side B - Connector 1	QSFP28 (MALE)
Connector Material	Zinc Alloy

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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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