



Data-Sheet

QSFP28 100G AOC Active Optical Cable

QSFP28 100G Active Optical Cable (AOC)

JTOPTICS® 100G QSFP28 AOC is a 4x25Gb/s active optical cable, which is designed for 100G Ethernet (100GbE) and InfiniBand FDR/EDR applications. They are composed of QSFP28 transceivers in both ends and OM3(OM4) multi-mode fiber cable. It has four channels in each direction with 100Gb/s total bandwidth. Each channel operates up to 25Gb/s. The 100G QSFP28 AOC cables is fully compliant with QSFP28 MSA of IEEE 802.3bm 100GBASE-SR4 and CAUI-4 specifications. With lighter weight and smaller bend radius, the 100G QSFP28 AOC cables provide an ideal alternative solution for the 100G QSFP28 DAC (passive direct attach copper cables) and QSFP28 transceivers in high-performance computing (HPC), data center and storage networks applications.

JTOPTICS® Active Optical Cable (AOC) cable assemblies are designed to meet data center, networking and high-performance computing application needs for a high-density cabling interconnect system, compatibility with major brands like Cisco, Juniper, Arista, Dell, HPE, Extreme, Brocade, Mellanox, H3C, Intel, IBM, Nokia, Zte, Ciena, Huawei, Ixia etc.



- 4 channels full-duplex transceiver modules
- Supports 100Gbps total data rate.
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- MMF cable with customizable length up to 70m (OM3)
- 4x 25G NRZ electrical interface
- 4x 25G NRZ optical interface
- Low power consumption <3.5W
- Data rate up to 25.78125Gbps per channel.
- Compliant with QSFP28 MSA, 100GBASE-SR4 Ethernet and InfiniBand EDR
- Case operating case temp. 0 to 70°C
- 3.3V power supply voltage
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)

3 Years Warranty

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|------------------------------------|---|
| Description | 100GBASE-SR4 QSFP28 to QSFP28 OM3 Multimode AOC Cable |
| Part Code | JT-QSFP28-100G-AOC-XX |
| Connector - A | QSFP28 |
| Connector - B | QSFP28 |
| Cable Assembly Type | Active Optical Cable |
| Cable Type | Multimode OM3 |
| Jacket Material | PVC/OFNP |
| Operating Temperature Range | 0 to 70°C (32 to 158°F) |
| Protocols | 40G/100G Ethernet, InfiniBand EDR |
| Max Data Rate | 100Gbps |
| Application | IEEE 802.3bm 100GBASE SR4 InfiniBand EDR Fibre Channel 40G/100G Ethernet Servers, switches, storage |
| Warranty | 3 Years |

About JT

In the dynamic realm of technology and innovation, the emergence of Jayani Technologies Limited has been nothing short of a saga marked by ingenuity, resilience, and a steadfast commitment to excellence. Originating as Jayani Technologies LLP in 2011 in the vibrant city of Mumbai, India, the company has evolved into a trailblazer in its domain. This narrative unfolds against the backdrop of the company's expansion into Hong Kong, a strategic move signaling its intent to conquer new horizons.

Established in 2011, Jayani Technologies (JTOPTICS[®]) was conceived as a response to the evolving technological landscape, recognizing the need for cutting-edge solutions that marry innovation with reliability. The Mumbai headquarters became the crucible for the company's early endeavor, a melting pot of talent and vision that propelled Jayani Technologies into the forefront of its industry and emerged as a leading manufacturer and supplier of cutting-edge solutions in the fields of optical Fiber, data center, networking, and electric vehicle components.

From its inception, the company distinguished itself by its unwavering commitment to client satisfaction, a commitment that became the cornerstone of its success. Jayani Technologies quickly became synonymous with technological prowess and an unwavering dedication to delivering solutions that transcended conventional boundaries.

JTOPTICS[®] has developed and produced many active and passive interconnection and connectivity products suitable for different networks, aiming to become a one-stop device integration solution provider in the open optical network field, products include MPO Cables, AOC cable, passive DAC cable, optical transceivers, optical modules & subsystems, active & passive optical components, and high-density cabling products.

Vision

Our vision is to be recognized by clients as trustful a trusted business partner whose mission is to help our clients by offering state-of-the-art products and services.

Mission

Our mission is to catalyze the success of its clients by providing unparalleled technological solutions. The company envisions itself as a catalyst for positive change, aiming to reshape industries through innovation, integrity, and a relentless pursuit of excellence.



Our Clients

ciena

ADVA[™]
Optical Networking

colt

CISCO

Coriant

MAVENIR



इसरो isro

JUNIPER
NETWORKS

TEJAS[®]
NETWORKS

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS

HITACHI

एनटीपीसी
NTPC

TATA

LARSEN & TOUBRO



Our Contact



+91-86-9309-9309



info@jtoptics.com



www.jtoptics.com



409-410 Lodha I-Think, B-Block, Palava,
Dombivali (E), Thane, MH 421204

Hongkong

India

Singapore

Malaysia

Qatar

JAYANI TECHNOLOGIES LLP