



Data-Sheet

QSFP56 200G AOC Active Optical Cable

200G QSFP56 Active Optical Cable (AOC)

JTOPTICS[®] 200G QSFP56 AOC is a QSFP56 VCSEL (Vertical Cavity Surface-Emitting Laser) based active optical cable (AOC) designed for use in 200Gb/s Ethernet or InfiniBand HDR systems. The 200G QSFP56 AOC offers high-end port density and configurability, and a much longer reach than passive copper cables in the data centers. 200G QSFP56 AOC has a standard SFF-8665 compliant QSFP56 port on the electrical side towards the host system. It contains four channels multi-mode fibers (MMF) optic transceivers per end, each channel of transceivers operates data rates up to 50Gb/ with PAM4 modulated signals (4x 50G PAM4). Assembled with fixed length of fiber cable, the AOC is easy to install and replace.

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.



- Hot-pluggable QSFP56 form factor full-duplex transceiver assembly
- 4-channel 850nm VCSEL array and PIN photo-detector array
- Data rate up to 53.125Gbps (26.5625GBd PAM4) per channel.
- 200GAUI-4 electrical interface
- Compliant with QSFP56 MSA, CMIS 4.0 and IEEE 802.3cd 200GBASE-SR4
- Compliant with IEEE 802.3bm 100GBASE-SR4 and InfiniBand EDR/HDR
- Built-in 200G PAM4 DSP
- MMF cable with customizable length up to 70M (OM3) & 100m (OM4)
- 5W maximum power dissipation per 200G QSFP56 SR4 module
- Case operating case temp. 0 to 70°C
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)

3 Years Warranty

Name	200GBASE-SR4 QSFP56 to QSFP56 Multimode AOC Cable
Part Code	JT-QSFP56-200G-AOC-XX
Connector - A	QSFP56
Connector - B	QSFP56
Cable Assembly Type	Active Optical Cable
Cable Type	Multimode OM3/OM4
Jacket Material	PVC/OFNP
Operating Temperature Range	0 to 70°C (32 to 158°F)
Protocols	SFF-8636 and SFF-8679, IEEE 802.3cd
Max Data Rate	200Gbps
Application	200Gb/s InfiniBand HDR systems Data centers and Cloud Networks

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





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