

# Data-Sheet

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## QSFP-DD 800G AOC Active Optical Cable

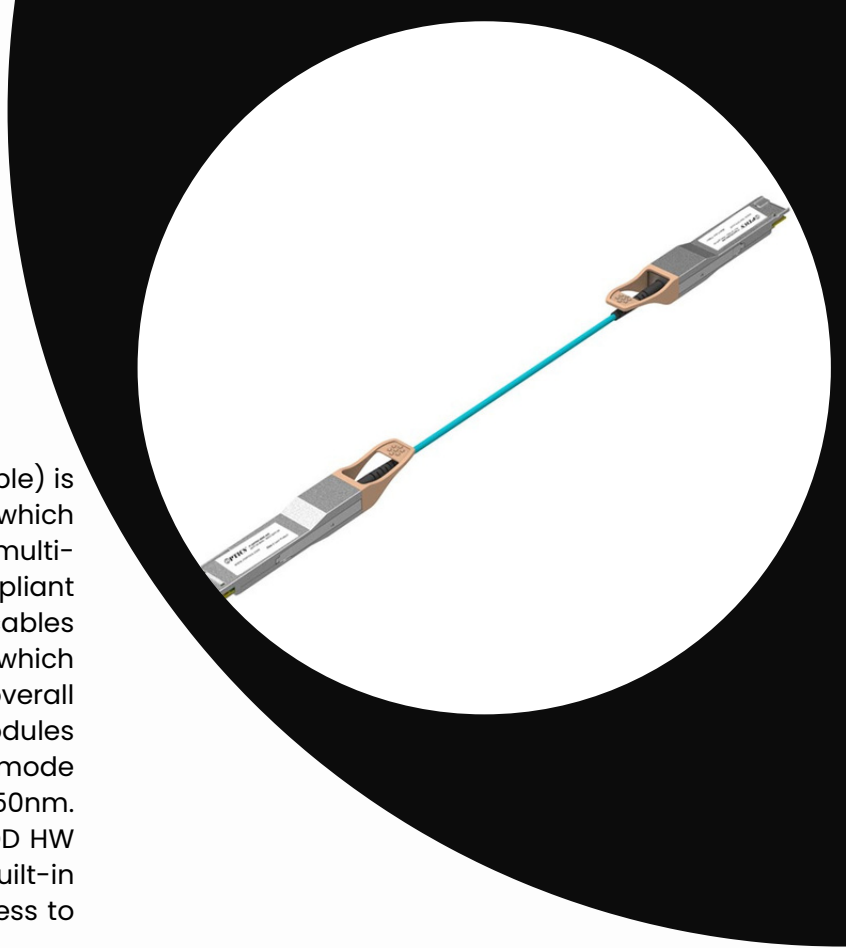
# 800G QSFP-DD Active Optical Cable (AOC)

JTOPTICS® 800G QSFP-DD AOC (active optical cable) is a 800 Gb/s parallel active optical cable, which transmits parallel 8x100 Gb/s PAM4 signals over multi-mode fiber (MMF) cables up to 30m. It is compliant with QSFP-DD MSA. The 800G QSFP-DD AOC cables supports eight electrical interface lanes, each of which operate in the data rate of 106.25G/s, with an overall aggregate bandwidth up to 850Gb/s. These modules of cables are designed to operate over multi-mode fiber systems using a nominal wavelength of 850nm. This cable is compliant with IEEE 802.3ck, QSFP-DD HW Specification Rev 6.3, and CMIS Rev 5.0. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.

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 QSFP-DD AOC assemblies
- 8x 100G PAM4 electrical interface
- 8x 100G PAM4 optical interface
- Data rate up to 106.25Gbps per channel
- Compliant with QSFP-DD MSA, CMIS and IEEE 802.3
- Low power dissipation
- Commercial Case Temperature 0°C to 70°C
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)
- Max. Power Consumption 12W
- I2C interface with Integrated Digital Diagnostic Monitoring
- High-Speed Electrical Compliant to IEEE 802.3ck

**3 Years Warranty**



<b>Name</b>	800GBASE-SR8 QSFP-DD to QSFP-DD Multimode AOC Cable
<b>Part Code</b>	JT-QSFPDD-800G-AOC-XX
<b>Connector - A</b>	QSFP-DD
<b>Connector - B</b>	QSFP-DD
<b>Cable Assembly Type</b>	Active Optical Cable
<b>Cable Type</b>	Multimode OM4/OM5
<b>Jacket Material</b>	PVC/OFNP
<b>Operating Temperature Range</b>	0 to 70°C (32 to 158°F)
<b>Protocols</b>	IEEE 802.3ck, QSFP-DD MSA
<b>Max Data Rate</b>	800Gbps
<b>Application</b>	8x100G Ethernet 2x400G Ethernet 1x800G Ethernet

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## 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<sup>®</sup>) 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<sup>®</sup> 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



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**JAYANI TECHNOLOGIES LLP**