



# Data-Sheet

**QSFP-DD to 8xSFP56**

**400G to 8x50G DAC**

**Direct Attached Cable**

# 400G to 8x50G Passive Breakout Direct Attached Cable (DAC)

JTOPTICS 00G QSFP-DD to 8x 50G SFP56 PCC (Passive Copper Cable), also known as Direct Attach Copper (DAC) cable or Twinax cable, provides robust connections between 400G Ethernet (2x 200GE) and 50G Ethernet systems. Each cable consists of eight lanes each operating at data rates of up to 50Gb/s (PAM4). The passive copper cables require no additional power to ensure quality connectivity. The cables are compliant with QSFP-DD MSA and SFP56 MSA standard specifications and provide connectivity between system units with a QSFP-DD (QSFP56-DD) port on one side and up to eight different SFP56 ports on the other.

Direct attach copper (DAC) cables, also known as Twinax cables, are suitable for in-rack connections between servers and switches. They are suitable for short distances, making them ideal for highly cost-effective networking connectivity within a rack and between adjacent racks. JTOPTICS twinax copper cables are available with brand compatible version and compatible with major brands like Cisco, Finisar, Juniper, Arista, Dell, HPE, Extreme, Brocade, Mellanox, H3C, Intel, IBM, Nokia, Ciena, Huawei, Ixia.

- Hot Pluggable QSFP-DD and SFP56 MSA Compliant
- Data rate up to 425Gbps.
- 8x 53Gb/s PAM4 modulation
- Operating case temperature of 0-70°C
- 8x50G PAM4 Retimed 400GAUI-8 Electrical Interface
- Copper link length up to 3m
- Supports 400G to 8x50G Ethernet Interoperability
- Single 3.3V supply voltage
- Bit Error Rate (BER) better than 1E-15
- RoHS compliant
- Data rate up to 53.125Gbps per channel.
- Low power dissipation
- Excellent signal integrity & low insertion loss
- Minimum Bend Radius 33.5mm

**3 Years Warranty**



<b>Name</b>	400G DAC Cable QSFP-DD to 8xSFP56 26AWG, Direct Attached Cable
<b>Part Code</b>	<u>JT-QSFPDD-SFP56-400G-DAC-XX</u>
<b>Connector - A</b>	QSFP-DD
<b>Connector - B</b>	8xSFP56
<b>Cable Assembly Type</b>	Passive Twinax Copper Cable
<b>Protocols</b>	InfiniBand HDR, 400GBASE-CR8, SFF-8665, QSFP-DD MSA, IEEE802.3bj, IEEE802.3 cd
<b>Jacket Material</b>	PVC/LSZH
<b>Commercial Temperature Range</b>	0 to 70°C (32 to 158°F)
<b>Cable Type</b>	26 AWG (Up to 3 Meter)
<b>Max Data Rate</b>	400Gbps
<b>Application</b>	Data com Network 400 Gigabit Ethernet Data Centre InfiniBand HDR Servers, switches, storage

## 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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