



# Data-Sheet

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## QSFP DD 400G DAC Direct Attached Cable

## QSFP DD 400G Passive Direct Attached Cable (DAC)

JTOPTICS 400G QSFP-DD DAC (Passive Direct Attach Copper) enables high-bandwidth 400G links and supports 400G Ethernet rate. It is high-speed, cost-effective alternatives to fiber optics in 400G Ethernet applications. The 400G QSFP-DD DAC cable contains 16 high-speed copper pairs, each operating at data rates of up to 53Gb/s, which are suitable for very short links and offer a cost-effective and power-efficient way to establish a 400-Gigabit link between QSFP-400G ports of switches/routers within racks and across adjacent racks. They enable higher port bandwidth, density and configurability at a low cost and reduced power requirement in the data centers.



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 form factor
- Data rate up to 425Gbps.
- 8x 53Gb/s PAM4 modulation
- QSFP-DD MSA, CMIS and IEEE 802.3 compliant
- Operating case temperature of 0-70°C
- Copper link length up to 3m
- 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 and low crosstalk
- Minimum Bend Radius 33.5mm

**3 Years Warranty**

<b>Name</b>	400G DAC Cable QSFP-DD to QSFP-DD 26AWG , Direct Attached Cable
<b>Part Code</b>	<u>JT-QSFPDD-400G-DAC-XX</u>
<b>Connector - A</b>	QSFP-DD
<b>Connector - B</b>	QSFP-DD
<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



**ciena**

**ADVA**<sup>™</sup>  
Optical Networking

**colt**

**CISCO**

**Coriant**

**MAVENIR**



**इसरो isro**

**JUNIPER**  
NETWORKS

**TEJAS**<sup>®</sup>  
NETWORKS

**भारत इलेक्ट्रॉनिक्स**  
**BHARAT ELECTRONICS**

**HITACHI**

**एनटीपीसी**  
**NTPC**

**TATA**

**LARSEN & TOUBRO**



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**Malaysia**

**Qatar**

**JAYANI TECHNOLOGIES LLP**