



# Data-Sheet

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## 100G QSFP28 DAC Direct Attached Cable

# QSFP28 to QSFP28 100G Passive Direct Attached Cable (DAC)

JTOPTICS 100G QSFP28 DAC is the QSFP28 to QSFP28 copper direct 100GBASE-CR4 cable, which is suitable for very short links and offer a cost-effective choice to establish a 100 gigabit link between two 100G QSFP28 ports of switches within racks and across adjacent racks. It is compliant with QSFP28 Multi-Source Agreement (MSA) standard SFF-8665, IEEE 802.3bj and InfiniBand HDR. 100G DAC cables are configured with 4 independent channels of NRZ signals, up to 25.78 Gbps data rate per channel. It is assembled with two QSFP28 electrical connectors and fixed cable lengths. 100G QSFP28 DAC cables provide power-efficient connectivity for short distance interconnections in the high-performance computing (HPC), data centers and storage networks.

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 QSFP28 DAC cable assemblies
- 4-channel full-duplex passive copper cable
- SFF-8665 compliant QSFP28 connectors
- Compliant with QSFP28 MSA and IEEE 802.3
- SFF-8636 compliant I2C management interface
- IEEE 802.3bj 100GBASE-CR4 compliant
- Data rate up to 100Gbps.
- Excellent signal integrity, low insertion loss and low crosstalk
- Low power dissipation
- Operating case temp. range: 0°C to +70°C
- Single 3.3V supply voltage
- RoHS compliant

**3 Years Warranty**



<b>Name</b>	100G DAC Cable QSFP28 to QSFP28 passive twinax copper cable
<b>Part Code</b>	<u>JT-QSFP28-100G-DAC-XX</u>
<b>Connector - A</b>	QSFP28
<b>Connector - B</b>	QSFP28
<b>Cable Assembly Type</b>	Passive Twinax Copper Cable
<b>Protocols</b>	InfiniBand EDR, 100GBASE-CR4, SFF-8665, QSFP28 MSA, SFF-8636, SFF-8679
<b>Jacket Material</b>	PVC/LSZH
<b>Commercial Temperature Range</b>	0 to 70°C (32 to 158°F)
<b>Cable Type</b>	30 AWG (up to 2 Meter) 26 AWG (up to 5 meter)
<b>Max Data Rate</b>	100Gbps
<b>Application</b>	Data com Network 100 Gigabit Ethernet Data Centre InfiniBand EDR 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



+91-86-9309-9309



[info@jtoptics.com](mailto:info@jtoptics.com)



[www.jtoptics.com](http://www.jtoptics.com)



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

**Hongkong**

**India**

**Singapore**

**Malaysia**

**Qatar**

**JAYANI TECHNOLOGIES LLP**