



Data-Sheet

QSFP-DD to 4xQSFP28
400G to 4x100G DAC
Direct Attached Cable

400G to 4x100G Passive Breakout Direct Attached Cable (DAC)

JTOPTICS 400G QSFP-DD to 4x 100G QSFP28 PCC (Passive Copper Cable), also known as Direct Attach Copper (DAC) cable or Twinax cable, provides robust connections between 400G Ethernet and 100G Ethernet systems. Each cable consists of four lanes each operating at data rates of up to 100Gb/s (PAM4). This integrated cable solution provides reliable transport for aggregate data rates of up to 400Gb/s. Optimizing systems to operate with JTOPTICS 400Gb/s passive copper cables significantly reduces power consumption and EMI emission, eliminating the use of Enterprise Data Center (EDC) hosts.

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
- 8x50G PAM4 Retimed 400GAUI-8 Electrical Interface
- Copper link length up to 3m
- Supports 400G to 4x100G 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



Name	400G DAC Cable QSFP-DD to 4xQSFP28 26AWG, Direct Attached Cable
Part Code	<u>JT-QSFPDD-QSFP28-400G-DAC-XX</u>
Connector - A	QSFP-DD
Connector - B	4xQSFP28
Cable Assembly Type	Passive Twinax Copper Cable
Protocols	InfiniBand HDR, 400GBASE-CR8, SFF-8665, QSFP-DD MSA, IEEE802.3bj, IEEE802.3 cd
Jacket Material	PVC/LSZH
Commercial Temperature Range	0 to 70°C (32 to 158°F)
Cable Type	26 AWG (Up to 3 Meter)
Max Data Rate	400Gbps
Application	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[®]) 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