

NEXT-GEN NETWORK SOLUTION..

JAYANI TECHNOLOGIES LTD



Next-Gen Network Solution



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About us

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.

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.

Domain Proficiency

Our rich business domain experience enables us to understand business needs easily. Our knowledge stretches from design, development and integration of key processes. This knowledge base and experience helps us save client's precious time and deliver the right products and solutions for every specific need.

Technology Competency

Our unique competence in various technologies enables us to deliver high quality products with the optimal cost/performance ratio. We constantly conduct research on new technology products to meet the ever-growing needs of our customers.

Our Commitment

JT is committed to make our customers, employees, suppliers, and investors be proud of the quality of the products and services we provide, and the long-term satisfaction is our final goal. We support our employees and enable them to create a rewarding and innovative culture.

Vision

Our vision is to be recognized by clients as 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.

Core Values

Respect, professionalism and determination are the values that are the foundation of our culture.

Quality Commitment

JT is committed to provide its customers with cost effective reliable quality and environment friendly products that keeps them step forward from their competitors and puts them one step closer to future.

OEM manufacturing

JTOPTICS® offers tailor-made manufacturing processes to address the unique requirements of our Original Equipment Manufacturer (OEM) customers. Our professionals team is dedicated to deliver innovative, turnkey solutions in collaborative partnerships with our OEM customers. Our Objectives is to help OEM business partners in optimizing overall efficiency through streamlining cost structure, reducing time to market cycle, and excelling manufacturing excellence.

Our Core Team

We are honored to lead this exceptional team of talented individuals who are the driving force behind our company's success. Our journey, which began in 2011 in Mumbai, India, has been one marked by innovation, dedication, and a commitment to delivering unparalleled technological solutions. At Jayani Technologies, we believe in pushing the boundaries of what is possible. Our mission is to not only meet the needs of our clients but to exceed their expectations, fostering lasting partnerships and contributing to the advancement of technology on a global scale.



Vijay Gupta

CEO

As CEO, Vijay leads a talented, results-driven team known for its reputation for providing comprehensive, integrated marketing and strategic communications counsel that drives real business results. Vijay has over twenty years of experience working with high-tech companies and a proven track record of successfully helping organizations to grow faster.



Nidhi Gupta

COO

Nidhi, as COO, manages operational duties, focusing on Human Resources. She leads recruitment efforts, shaping the company's culture, and ensures it remains an exceptional workplace.



K.C. Goyal

CFO

Mr. Goyal works closely with JT board and senior leadership to define and execute finance-related initiatives and plan for future growth, including budgeting, forecasting, pricing and strategic planning.

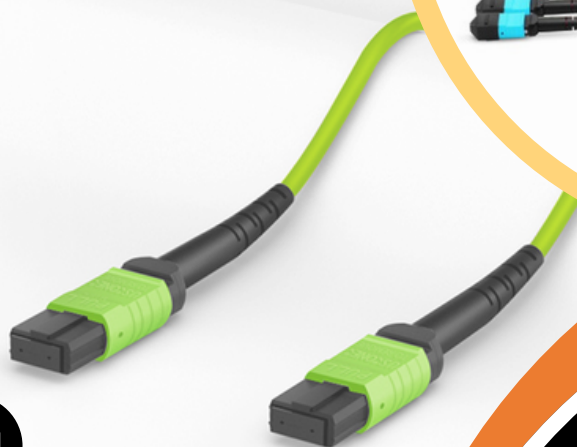
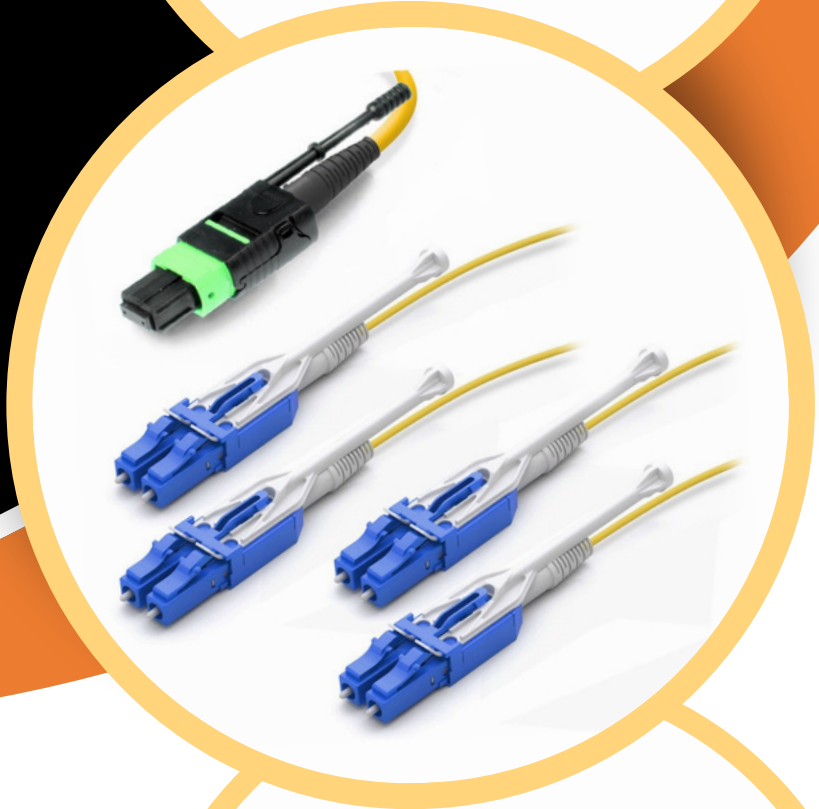
MPO / MTP® CABLES & CONNECTORS

MPO / MTP® Trunk Cable

MPO / MTP® Breakout Cable

MPO / MTP® High Density Cable

JTOPTICS® MPO cables are factory pre-terminated, tested and packed along with test reports. They are built with high-quality components of Japanese MT ferrules and JTOPTICS brand connector kits. The trunk cable assemblies are composed of high quality LSZH/OFNP jacketed fiber optic cables



MPO CONNECTOR ASSEMBLY

12 Fiber / 16 Fiber / 24 Fiber



The MPO (Multi-fiber Push On) connector is a multi-Fiber connector, the connector can be from 12 to 72 fibers located on the 12 fibers in a row. MPO connector is standardized in the international regulatory framework (the IEC 61754-7 standard) and the U.S. (TIA-604-5 Standard).



MPO Connectors

MPO connector is designed for high-density transmission and space-saving applications. Each individual connector contains 8, 12 or 24 strands of fiber through an MT ferrule, which provides quick and reliable interconnections with guide pin. MPO optical connector with guide pin called male type, and female type if without guide pin.



MPO Connector Flat Boot



MPO Connector Ribbon Bare Boot



MPO Round Connector



MPO Connector with Angle Boot



MPO Push-Pull Connector



MPO Break-Out Tube



MT Ferrule for Connectors

Key Features:

- High performance IL & RL
- Housing can be removed for re-polishing
- Un-Plugged from adapter with push-pull tab
- Available for 45-degree, 90-degree & flexible boot
- IEC 61754-7 and TIA / EIA 604-5 Compliant



MPO / MTP® TRUNK CABLE

For 40G/100G/400G/800G Modules



JTOPTICS MPO trunk patch cables are built with high-quality Japanese MT ferrules and JTOPTICS brand connector kits. The trunk cable assemblies are composed of high quality LSZH/OFNP jackets.

12 Fiber MPO Trunk Assembly is designed for 40G QSFP+ SR4/CSR4, 100G QSFP28 SR4/PSM4, 400G SR4/DR4 Transceiver Modules. This cable assembly is designed with 12 fiber cores in the MPO / MTP® connectors on both sides.



16 Fiber MPO Trunk Assembly is designed for 400G QSFP-DD SR8/FR8 Transceiver Modules. This cable assembly is designed with 16 fiber cores in the MPO / MTP® connectors on both sides.

24 fiber MPO Trunk Assembly is designed for 100G(CFP/CFP2/CXP) / 400G(QSFP-DD) transceiver Modules. This cable assembly is designed with 24 fiber cores in the MPO / MTP® connectors on both sides.



Key Features:

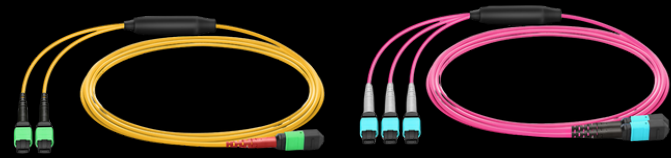
- Low Insertion Loss & High Performance
- Comply with IEC 61754-7, TIA/EIA 604-5
- Compliant for MPO/MTP interfaces
- Available in PVC, LSZH, OFNP, OFNR Jackets
- Individually Packed with Test Report
- 100% 3D Factory Tested
- Offered in Single mode (OS2) & Multi mode (OM3/OM4/OM5)

| Brand | Fiber Type | No of Breakout | Fiber Count | Connector A | Gender | Connector B | Gender | Cable Length | Polarity | | | |
|---------------|------------|----------------|-------------|-------------|---------------|-------------|--------|---------------|----------|---------------|---|------------|
| JTMP JTOPTICS | M3 OM3 | Straight | 08 8 Fiber | MOS | MPO | F Female | MOS | MPO | F Female | XX 0-99 meter | A | Polarity-A |
| XXXX OEM | M4 OM4 | 2 2x12F | 12 12 Fiber | MPS | MTP | M Male | MPS | MTP | M Male | | B | Polarity-B |
| | M5 OM5 | 3 3x12F | 16 16 Fiber | MOSP | MPO Push Pull | | MOSP | MPO Push Pull | | | C | Polarity-C |
| | S2 OS2 | 4 4x12F | 24 24 Fiber | MOSF | MPO Flex Boot | | MOSF | MPO Flex Boot | | | D | Polarity-D |
| | | | 6 6x12F | | | | | | | | | |
| | | | 48 48 Fiber | | | | | | | | | |
| | | | 72 72 Fiber | | | | | | | | | |

JTMP-M3-12-MOSF-MOSF-XX-B

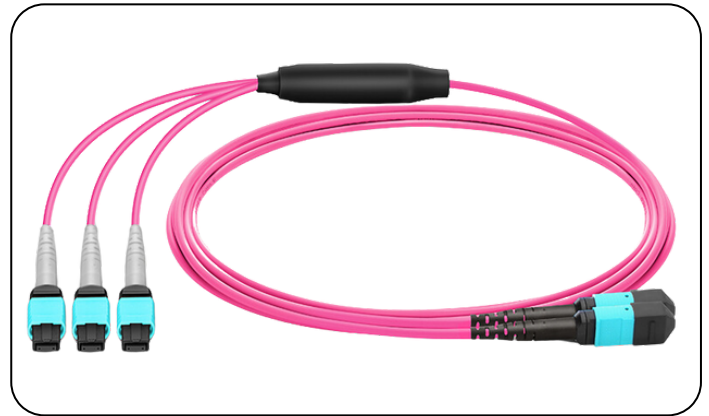
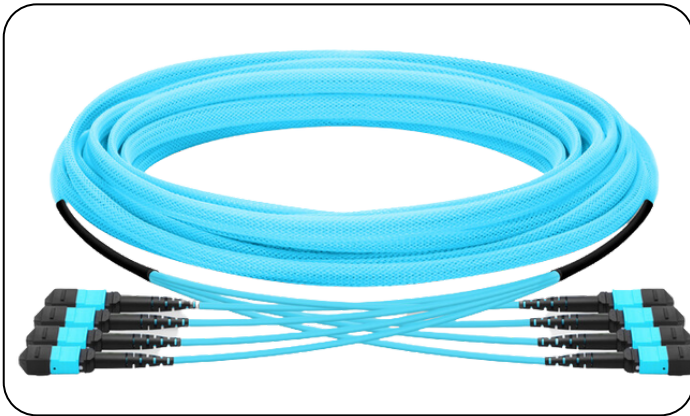
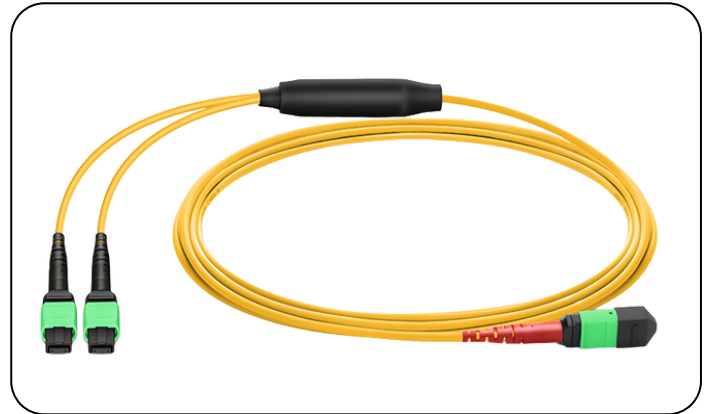
MPO / MPO BREAKOUT CABLE

For 400G/ 800G Breakout Connectivity



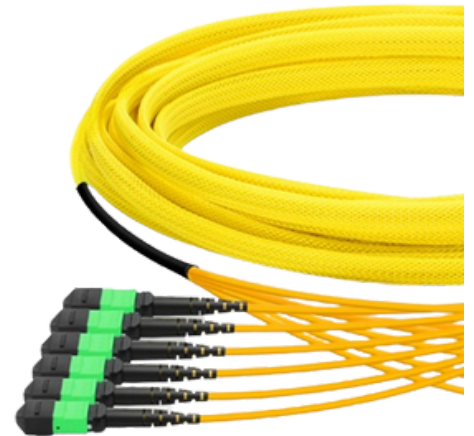
MPO / MTP® conversion harness cable Assembly allows users to built their network with 8 fibers to convert to 24 fiber, 48 fiber or 72 fiber connectors which matches the transceivers.

JTOPTICS MPO pre-terminated Trunk Cables are designed for high density application which offers excellent benefits in terms on-site installation time and space saving. The trunk cable assemblies are composed of high quality LSZH jacketed fiber optic cables used in data center, telecom and backbone application for 40G, 100G, 400G & 800G connectivity.



Key Features:

- Low Insertion Loss & High Performance
- Supports 40G and 100G network applications
- Offered in Single mode, Multimode (OM3/OM4/OM5)
- Jacket material: LSZH, OFNR, OFNP available
- 100% pre-terminated and Factory tested
- Rapid configuration and networking, reduce installation time..
- Available in Custom Breakout Length
- Compliant for MPO/MTP interfaces
- Complied to Telcordia GR-326 core, TIA 604-18 (FOCIS 18) & IEC (61754-7-3) Standards



IL and RL Testing



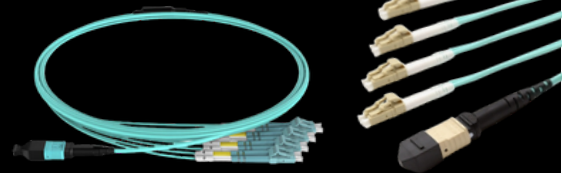
End-face Inspection



Polarity Testing

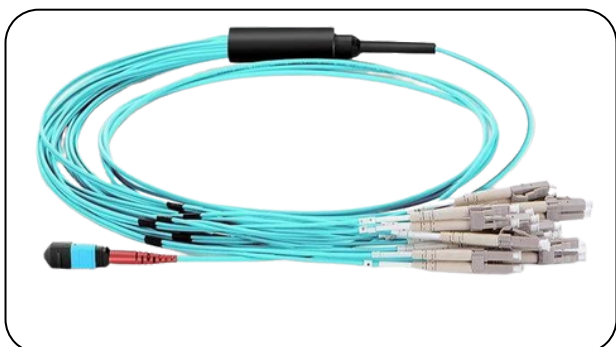
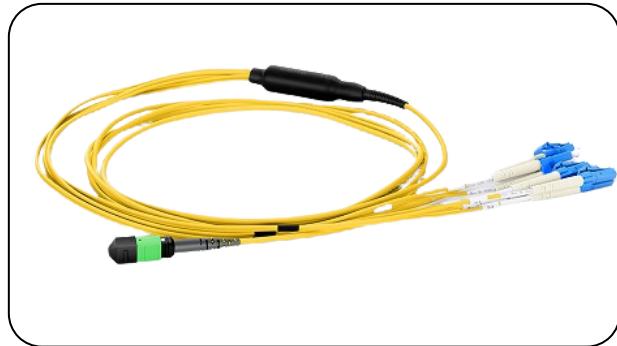
MPO / MTP® BREAKOUT CABLE

For QSFP+/QSFP28/QSFP56/QSFP-DD Modules

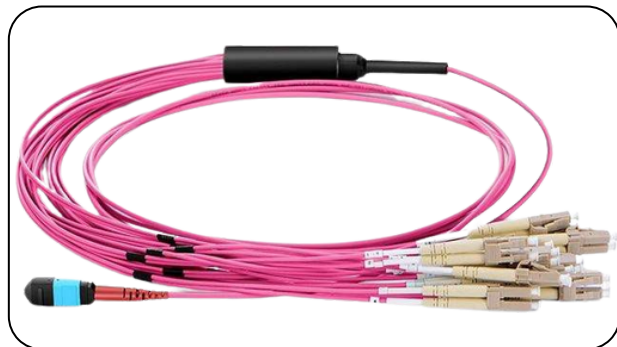


JTOPTICS MPO breakout cable allows the redistribution of various optical fibers to individual devices without additional networking equipment. They are built with high-quality components of Japanese MT ferrules and JTOPTICS brand connector kits. The trunk cable assemblies are composed of high quality LSZH/OFNP jacketed fiber optic cables.

8/12 Fiber MPO Fanout Assembly provide connections between QSFP+ to 4 x SFP+, QSFP28 to 4 x SFP28 and QSFP-DD to 4 x QSFP-28 Transceiver Modules. This cable assembly is designed with 8 fiber cores in the MPO / MTP® connectors on one side and 4 LC Duplex connectors on the other sides.



16 Fiber MPO harness patch cord assemblies are used to interconnect QSFP-DD and QSFP-DD800 transceivers. QSFP-DD to 8 x SFP-56 and QSFP-DD800 to QSFP-28 with SR8 Transceiver Modules.



24 fiber MPO to LC Fan out Assembly provides connections between single CFP/CXP (100G transceiver with MPO interface) and 10 x SFP+ (10G transceivers with LC Duplex Interface). This cable assembly is designed with 24 fiber cores in the MPO / MTP® connectors on one side and 12 LC Duplex connectors on the other sides.

Key Features:

- Low Insertion Loss & High Performance
- Comply with IEC 61754-7, TIA/EIA 604-5
- Compliant for MPO/MTP interfaces
- Available in PVC, LSZH, OFNP, OFNR Jackets
- Individually Packed with Test Report
- 100% 3D Factory Tested
- Offered in Single mode (OS2) & Multi mode (OM3/OM4/OM5)

| Brand | Fiber Type | Breakout Length | Fiber Count | Connector A | Gender | Connector B | Polish | Cable Length | Polarity | |
|-------|-----------------|-----------------|-------------|-------------|---------------|-------------|---------------------|--------------|---------------|--------------|
| JTMP | JTOPTICS M3 OM3 | 0.5 mt | 08 8 Fiber | MOS | MPO | F Female | LC LC Duplex | A APC | XX 0-99 meter | A Polarity-A |
| XXXX | OEM M4 OM4 | 1 1 mt | 12 12 Fiber | MPS | MTP | M Male | LCP LC Dx Push Pull | P PC | | B Polarity-B |
| | M5 OM5 | 2 2 m | 16 16 Fiber | MOSP | MPO Push Pull | | LCF LC Dx Flex Boot | | | C Polarity-C |
| | S2 OS2 | 3 3 m | 24 24 Fiber | MOSF | MPO Flex Boot | | | | | D Polarity-D |

JTMP-M4-08-MOSF-LCP-XX-B

OPTICAL TRANSCEIVERS

- 1G SFP
- 10G SFP+
- 25G SFP28
- 40G QSFP+
- 100G QSFP28
- 200G QSFP56
- 400G QSFP-DD
- 800G QSFP-DD

JTOPTICS® Transceiver modules support SDH/SONET/OTN/Ethernet/SAN & comply with 5G fronthaul CPRI/eCPRI specifications and IEEE 802.3 Ethernet standards. JTOPTICS transceivers are Compatible with: Cisco, Finisar, Juniper, Arista, Dell, HPE, Extreme, Brocade, Mellanox, H3C, Intel, IBM, Nokia, Ciena etc.



1GE SFP TRANSCEIVER 1000BASE-SX SFP 850NM 550M, LC MMF

- Operating Data Rate up to 1.25Gbps
- 850nm VCSEL Laser Transmitter
- 550m with 50/125µm MMF
- 300m on 62.5/125µm MMF
- Hot-Pluggable SFP Footprint
- Duplex LC Connector Interface
- Single 3.3V Power Supply
- Compliant with MSA SFP Specification



JT-1G-SFP-DD-SR

1GE SFP TRANSCEIVER 1000BASE-LX SFP 1310NM 20KM, LC, SMF

- Dual data-rate of 1.25Gbps/1.063Gbps operation
- 1310nm FP laser and PIN photo detector for 20km
- SFP MSA and SFF-8472 with duplex LC receptacle
- Complied with RoHS
- 20km with 9/125 µm SMF
- Hot-Pluggable SFP Footprint
- Duplex LC Connector Interface
- Single 3.3V Power Supply
- Class 1 FDA and IEC60825-1



JT-1G-SFP-DD-LR

1GE SFP BIDI TRANSCEIVER 1000BASE-BX BIDI SFP, 20KM LC, SMF

- Dual data-rate of 1.25Gbps operation
- 1310nm FP laser and PIN photo detector for 20km
- Compliant with SFP MSA and SFF-8472
- Duplex LC receptacle
- Digital Diagnostic Monitoring
- Internal Compatible with SONET OC-24-LR-1
- Complied with RoHS



JT-1G-SFP-BD-LR

1GE SFP BIDI TRANSCEIVER 1000BASE-BX BIDI SFP, 40KM, LC, SMF

- Operating Data Rate up to 1.25Gbps
- 1550nm DFB Laser Transmitter
- 40km with 9/125 µm SMF
- Single 3.3V Power Supply
- Hot-Pluggable SFP Footprint
- Duplex LC Connector Interface
- Compliant with MSA SFP Specification
- Compliant with SFF-8472



JT-1G-SFP-BD-ER

1GE SFP ELECTRICAL TRANSCEIVER 1000BASE-T, RJ-45 100M

- Support 1000BASE-T Operation in Host Systems
- Support RX_LOS as Link indication
- For 100m Reach Over UTP Cat 5/5e/6Cable
- Hot-Pluggable SFP Footprint
- Fully Metallic Enclosure for low EMI
- Low Power Dissipation (1.05W Typical)
- Compact RJ-45 Connector
- Access to Physical Layer IC via 2-Wire Serial Bus
- Compliant with IEEE Std 802.3-2002



JT-1G-SFP-RJ

10G SFP+ TRANSCEIVER 10GBASE-SR 850NM, LC, MMF

- Hot-pluggable SFP+ form factor
- Compliant with SFP+ MSA standard
- VCSEL transmitter and PIN receiver
- Data rate up to 11.3Gbps
- Compliant with CPRI specification
- Maximum link length of 300m
- Single 3.3V power supply
- RoHS-6 compliant (lead free)



JT-10G-SFPP-DD-SR

10G SFP+ TRANSCEIVER 10GBASE-LR 1310NM, 10KM, LC, MMF

- Hot-pluggable SFP+ form factor
- Compliant with SFP+ MSA standard
- DFB transmitter and PIN receiver
- Data rate up to 11.3Gbps
- Compliant with CPRI specification
- Maximum link length of 10km
- Temperature range Commercial or Industrial
- Single 3.3V power supply
- RoHS-6 compliant (lead free)



JT-10G-SFPP-DD-LR

10G SFP+ TRANSCEIVER 10GBASE-ER 1310NM, 40KM, LC, SMF

- Hot-pluggable SFP+ form factor
- Compliant with SFP+ MSA standard
- EML transmitter and APD receiver
- Data rate up to 11.3Gbps
- Compliant with CPRI specification
- Maximum link length of 40km
- Temperature range Commercial or Industrial
- Single 3.3V power supply
- RoHS-6 compliant (lead free)



JT-10G-SFPP-DD-ER

10G SFP+ TRANSCEIVER 10GBASE-ZR 1550NM, 80KM, DOM, LC, SMF

- Full-duplex transceiver module
- Hot-pluggable SFP+ form factor
- Compliant with SFP+ MSA standard
- EML transmitter and APD receiver
- Data rate up to 11.3Gbps
- Compliant with CPRI specification
- Maximum link length of 80km
- Low power dissipation
- Single 3.3V power supply



JT-10G-SFPP-LC-ZR

10GE SFP+ ELECTRICAL TRANSCEIVER 10000BASE-T. RJ-45 30M

- Hot-pluggable SFP footprint
- Support 10GBASE-T
- Compact RJ-45 connector assembly
- Commercial Temperature Range: 0 to 70°C
- Single +3.3V power supply
- 10 Gigabit Ethernet over Cat6a/Cat7 cable
- RoHS compliant and lead-free
- Access to Physical Layer IC via 2-Wire Serial Bus
- Compliant with IEEE Std 802.3-2002



JT-10G-SFPP-RJ

25G

SFP28 Transceivers

25G SFP28 TRANSCEIVER 25GBASE-SR, 850NM, LC,MMF

- Hot-pluggable SFP28 form factor & 25Gbps data rate.
- Maximum link length of 70m over OM3 & 100m over OM4
- 850nm VCSEL laser and PIN photodetector.
- Internal CDR on both Transmitter and Receiver channel
- Duplex LC receptacle & Single 3.3V power supply
- Power dissipation < 1W
- Digital diagnostics functions available via the I2C interface.
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°



JT-25G-SFP28-LC-SR

25G SFP28 TRANSCEIVER 25GBASE-LR 1310NM, 20KM, LC, SMF

- Hot-pluggable SFP28 form factor
- Supports 25Gbps data rate.
- Maximum link length of 10m
- CWDM 1310nm DML transmitter and PIN receiver
- Internal CDR on both Transmitter and Receiver CH
- Duplex LC receptacle
- Single 3.3V power supply
- Power dissipation < 1.5W
- RoHS-6 compliant (2011/65/EU, lead free)
- Industrial case temperature range: 0°C to 70°C



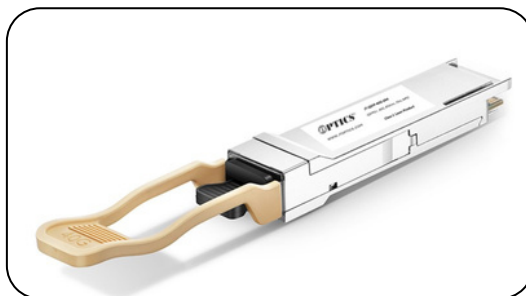
JT-25G-SFP-LC-LR

40G

QSFP+ Transceivers

40G QSFP+ TRANSCEIVER 40GBASE-SR4, 850NM, MPO-12, MMF

- Four-channel full-duplex transceiver module
- Hot Pluggable QSFP+ form factor
- Maximum link length of 100m on OM3 & 150m on OM4 MMF
- Maximum power dissipation < 1.5W
- Reliable VCSEL array technology
- Built-in digital diagnostic functions
- Commercial temperature range 0°C to 70°C
- Single 1x12 MPO receptacle
- RoHS-6 compliant



JT-40G-QSFPP-MPO-SR4

40G QSFP+ TRANSCEIVER 40GBASE-LR4 850NM, 150M, MPO, SMF

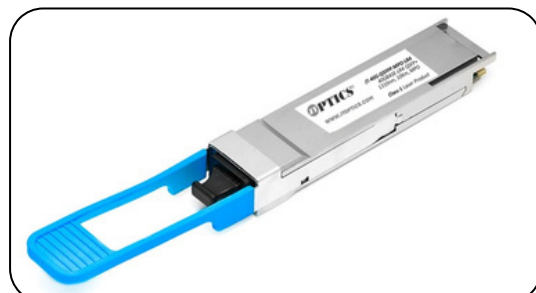
- 4 Channels Full-Duplex Transceiver Modules
- Transmission Data Rate Up to 10.3125Gbps per Channel
- Max. Link Length of 100m on OM3 Multimode & 150m OM4
- MPO12 Connector Receptacle
- Hot Pluggable QSFP form Factor
- Compliant with QSFP+ Electrical MSA SFF- 8436
- Low Power Consumption <1.5W
- Built-in Digital Diagnostic Functions
- 3.3V Power Supply
- Operating Case Temperature -40 °C to +8
- RoHS Compliant (lead Free)



JT-40G-QSFPP-MPO-LR4

40G QSFP+ TRANSCEIVER 40GBASE-LR4 1310NM, 10KM, LC, SMF

- Hot-pluggable QSFP+ form factor
- Supports 41.2 Gb/s aggregate bit rates
- Single 3.3V power supply & Power dissipation < 3.5W
- RoHS-6 compliant (lead-free)
- Commercial temperature range 0°C to 70°C
- Maximum link length of 10km on Single Mode Fiber (SMF)
- Uncooled 4x10Gb/s CWDM transmitter
- XLPP electrical interface
- Duplex LC receptacles
- Built-in digital diagnostic functions



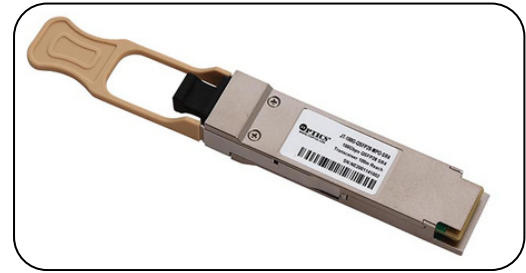
JT-40G-QSFPP-LC-LR4

100G

QSFP28 Transceivers

100G QSFP28 TRANSCEIVER 100GBASE-SR4, 850NM, MPO-12, MM

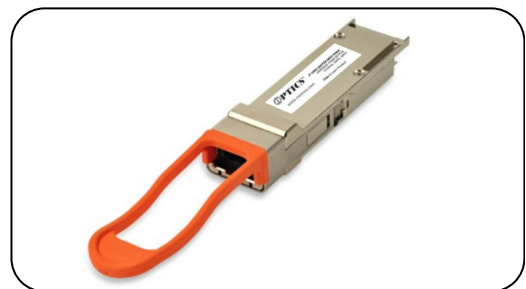
- Hot-pluggable QSFP28 form factor
- 4 channels full-duplex transceiver module
- Supports 103.1Gb/s aggregate bit rate.
- Max. link length of 70m on OM3 & 100m on OM4 (MMF)
- 4x25Gb/s 850nm VCSEL-based transmitter
- 4 channels PIN photo-detect.
- Internal CDR circuits (receiver & transmitter channels)
- Support MPO/MTP-12 Connector & CDR bypass
- Data rate up to 25.78125Gbps or 28.05Gbps per CH
- 3.5 W maximum power dissipation
- Single 3.3V power supply
- IEEE 802.3bm 100GBASE-SR4 and CAUI-4 standard.
- RoHS-6 compliant



JT-100G-QSFP28-MPO-SR4

100G QSFP28 TRANSCEIVER 100GBASE-PSM4 1310NM, MPO-12, SMF

- Hot-pluggable QSFP28 form factor
- 4 channels full-duplex transceiver module
- Supports 103.1Gb/s aggregate bit rate.
- Max. link length Up to 2km over single mode fiber
- 4 channels 1310nm DFB 4 channels PIN photo detector
- Internal CDR circuits (receiver & transmitter channels)
- Support SM MPO/MTP-12(APC) Connector & CDR bypass
- Transmission data rate up to 26Gbps per channel.
- 3.5 W maximum power dissipation
- Comply with IEEE 802.3bm 100G-PSM4 MSA standard.
- RoHS-6 compliant & Single 3.3V power supply



JT-100G-QSFP28-MPO-PSM4

100G QSFP28 TRANSCEIVER 100GBASE-LR4 1310NM, 10KM, LC, SMF

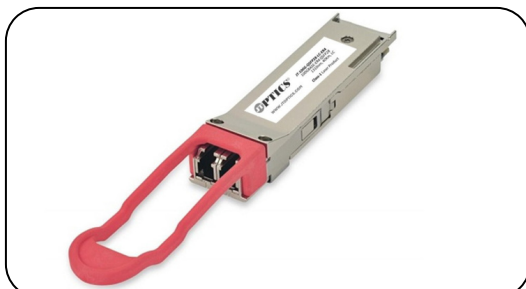
- Hot-pluggable QSFP28 form factor
- Max. link length of 10KM over Single mode Fiber.
- 4 x 26Gb/s DFB-based CWDM Cooling transmitter.
- 4 channels PIN ROSA.
- Internal CDR circuits (receiver & transmitter channels)
- Support CDR bypass
- Transmission data rate up to 26Gbps per channel.
- Duplex LC Connector
- Comply with IEEE 802.3ba 100GBASE-LR4, IEEE 802.3bm, SFF-8665 and SFF-8636 standards.
- 4 W maximum power dissipation
- Single 3.3V power supply
- RoHS-6 compliant



JT-100G-QSFP28-LC-LR4

100G QSFP28 TRANSCEIVER 100GBASE-ER4 1310NM, 40KM, DOM, LC, SMF

- Hot-pluggable QSFP28 form factor
- 4 channels full-duplex transceiver module.
- Max. link length of 10kM over Single mode Fiber.
- 4 X 25/28G LAN-WDM EML Integrated TOSA.
- 4 x PIN+SOA Receiver.
- Internal CDR circuits (receiver and transmitter channels)
- Support CDR bypass
- Transmission data rate up to 26Gbps per channel.
- Duplex LC Connector
- 6 W maximum power dissipation
- Single 3.3V power supply
- Comply with IEEE 802.3ba 100GBASE-ER4 Lite standard.
- RoHS-6 compliant



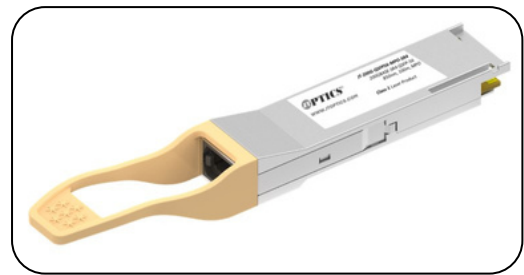
JT-100G-QSFP28-LC-ER4

200G

QSFP56 Transceivers

200G QSFP-56, 200GBASE-SR4, 850NM, MPO-12, MMF

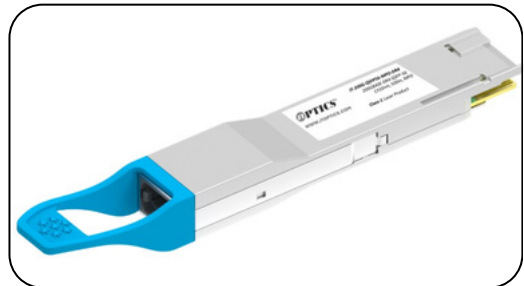
- Hot-pluggable QSFP56 form factor
- Built-in 200G PAM4 DSP
- Supports 212.5Gb/s aggregate bit rates
- Supports 103.125Gb/s aggregate bit rates if required
- Low power dissipation < 5W
- RoHS-6 compliant (lead-free)
- Commercial case temperature range of 0°C to 70°C
- Single 3.3V power supply
- Maximum link length of 70m over OM4 & 100m over OM5 MMF
- Uncooled 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- 200GAUI-4 electrical interface
- MPO-12 Connector receptacle
- CMIS V4.0 compliant
- Built-in digital diagnostic functionality



JT-200G-QSFP56-SR4

200G QSFP-56, 200GBASE-DR4 1310NM, 500M, MPO-12, SMF

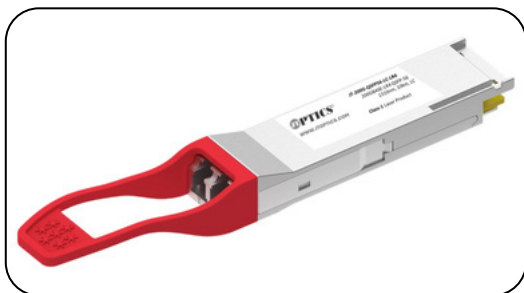
- Hot-pluggable QSFP56 form factor
- Built-in 200G PAM4 DSP
- Supports 212.5Gb/s aggregate bit rates
- Low power dissipation < 5.5W
- RoHS 2.0 compliant (lead-free)
- Commercial case temperature range of 0°C to 70°C
- Single 3.3V power supply
- Maximum link length of 500m over SMF
- Uncooled 4 channels 1310nm DML
- MPO-12/APC connector receptacle
- 4 channels PIN photo detector array
- 200GAUI-4 electrical interface
- CMIS V4.0 compliant
- Built-in digital diagnostic functionality



JT-200G-QSFP56-DR4

200G QSFP56, 200GBASE-LR4 1310NM, 20KM, DOM, LC, SMF

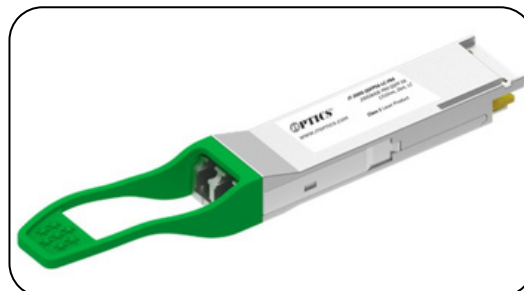
- Hot-pluggable QSFP56 form factor
- Built-in 200G PAM4 DSP
- Supports 212.5Gb/s aggregate bit rates
- Supports 103.1Gb/s aggregate bit rates if required
- Maximum power dissipation < 7.5W
- RoHS2.0 compliant (lead-free)
- Commercial case temperature range of 0°C to 70°C
- Single 3.3V power supply
- Maximum link length of 10km on SMF
- Cooled 4 channels EA-DFB TOSA
- 4 channels PIN ROSA
- 200GAUI-4 electrical interface
- Compliant with CMIS V4.0 Note1
- Built-in digital diagnostic functionality



JT-200G-QSFP56-LR4

200G QSFP56, 200GBASE-FR4 1310NM, 2KM, LC, SMF

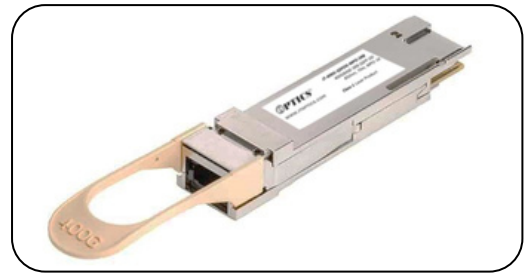
- Hot-pluggable QSFP56 form factor
- Built-in 200G PAM4 DSP & 200GAUI-4 electrical interface
- Supports 212.5Gb/s aggregate bit rates
- Low power dissipation < 6W
- Commercial case temperature range of 0°C to 70°C
- Single 3.3V power supply
- Maximum link length of 2km on SMF
- 4 channels DML TOSA (uncooled) & 4 channels PIN ROSA
- 4 CWDM lanes MUX/DEMUX design
- LC duplex connector & I2C management interface
- Compliant with CMIS 4.0
- Built-in digital diagnostic functionality
- RoHS(lead free)



JT-200G-QSFP56-LR4

400G QSFPDD, 400GBASE-SR8, 850NM, MPO-16, MMF

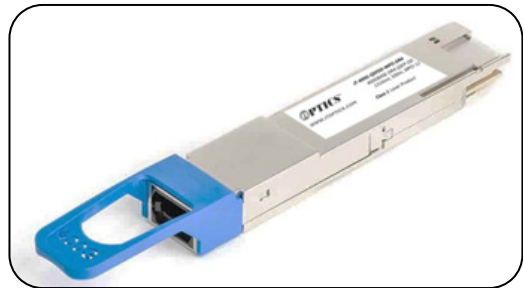
- 8 channels full-duplex transceiver modules
- Transmission data rate up to 53Gbps per channel
- 8x53Gbps PAM4 transmitter and PAM4 receiver
- 8 channels 850nm VCSEL array
- 8 channels PIN photo detector array
- Internal CDR circuits on both receiver and transmitter
- Power consumption <8.5W
- Hot Pluggable QSFP DD form factor
- Max. link length of 70m on OM3 MMF & 100m on OM4 MMF with FEC
- MPO-16 APC connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS compliant(lead free)



JT-400G-QSFPDD-SR8

400G QSFPDD, 400GBASE-PSM4 1310NM, 500M, MPO-12, SMF

- QSFP-DD MSA and CMIS compliant
- Compliant to 802.3bs 400GBASE-DR4
- 8x53.125Gbit/s PAM4 electrical interface(400GAUI-8)
- 4x106.25Gbps(53.125GBd PAM4) Optics architecture
- Power consumption <10W
- Maximum link length of 500m G.652 SMF with KP-FEC
- MPO-12 receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS compliant(lead free)



JT-400G-QSFPDD-DR4

400G QSFPDD, 400GBASE-FR4 1310NM, 2 KM, LC, SMF

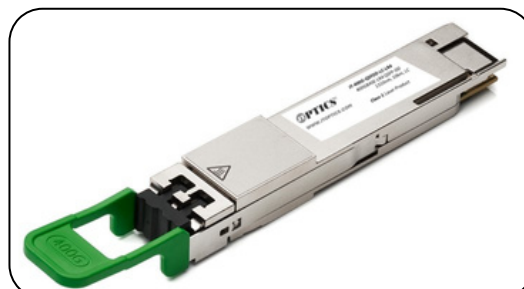
- 4 channels full-duplex transceiver modules
- Transmission data rate up to 100Gbps per channel
- 4x100Gbps PAM4 transmitter and PAM4 receiver
- Compliant with IEEE 802.3bs standard
- 4 channels 1310nm EML array
- Internal CDR circuits on both receiver and transmitter
- Power consumption < 10W
- Reach up to 2 Km SMF
- LC connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature range 0°C to +70°C
- 3.3V power supply voltage
- RoHS compliant (lead free)



JT-400G-QSFPDD-FR4

400G QSFPDD, 400GBASE-LR4 1310NM, 10KM, DOM, LC, SMF

- QSFP-DD MSA and CMIS compliant
- Compliant to 400G-LR4 Technical Specification
- 8x53.125Gbit/s PAM4 electrical interface(400GAUI-8)
- 4x106.25Gbps (53.125GBd PAM4) Optics architecture
- Power consumption <12W
- Maximum link length of 10Km G.652 SMF with KP-FEC
- Full Duplex LC connector
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS compliant(lead free)



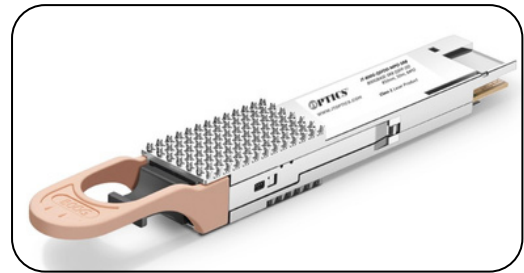
JT-400G-QSFPDD-LR4

800G

QSFP-DD Transceivers

800G QSFPDD, 800GBASE-SR8, 850NM, MPO-16, MMF

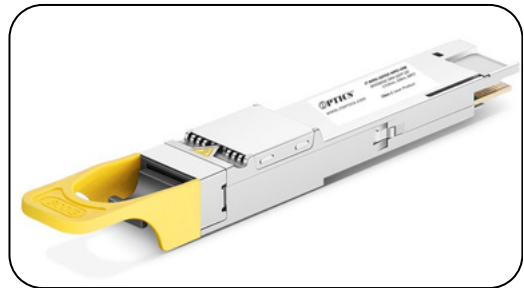
- 8 channels full-duplex transceiver modules
- Transmission data rate up to 106.25G per 8x53Gbps PAM4
- 8x106.25Gbps PAM4 transmitter and PAM4 receiver
- 8 channels 850nm VCSEL array
- 8 channels PIN photo detector array
- Power consumption <13W
- Hot Pluggable QSFP DD form factor
- Max. link length 70m over OM4 and 100m over OM5 MMF
- MPO-16 APC connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS compliant(lead free)



JT-800G-QSFPDD-SR8

800G QSFPDD, 800GBASE-DR8 1310NM, 500M, MPO-16, SMF

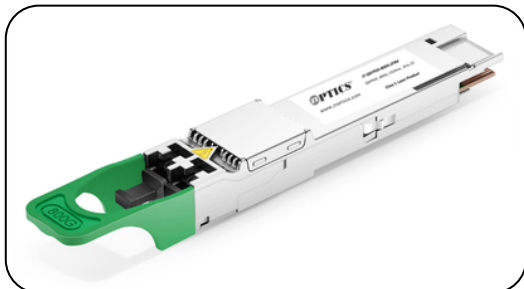
- QSFP-DD MSA and CMIS compliant
- Compliant to 802.3 800GBASE-DR8
- 8x106.25Gbps(53.125GBd PAM4) electrical interface
- 8x106.25Gbps(53.125GBd PAM4) Optics architecture
- Power consumption <16.5W
- Maximum link length of 500m G.652 SMF with KP-FEC
- MPO-16 receptacles
- 3.3V power supply
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- RoHS compliant(lead free)



JT-800G-QSFPDD-DR8

800G QSFPDD, 800GBASE-2FR4 PAM4, 1310NM 2KM DOM, DUAL CS DUPLEX SMF

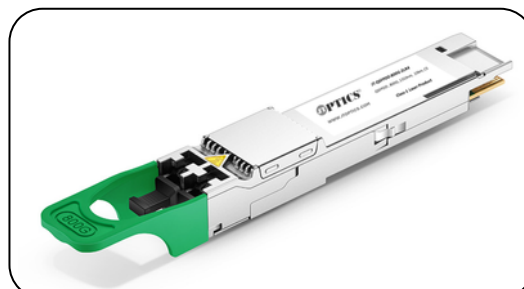
- Built-in Broadcom 7nm DSP Chip, Max. Power Consumption 18W
- Self-developed 53G EML Laser Chip to Ensure Production
- Parameter Tests for Superior Performance, Quality, and Reliability
- High-speed Connectivity Compliant to IEEE 802.3ck and IEEE 802.3cu-2021
- Hot Pluggable QSFP-DD MSA Compliant
- Support 2x400G Breakout for Higher Port Density
- 8x106.25G PAM4 Retimed 2x400GAUI-4 Electrical Interface
- Digital Optical Monitoring Capability for Strong Diagnostic Capabilities



JT-800G-QSFPDD-2FR4

800G QSFPDD, 800GBASE-2LR4 PAM4, 1310NM 10KM DOM, DUAL CS DUPLEX SMF

- Built-in Broadcom 7nm DSP Chip, Max. Power Consumption 18W
- Self-developed 53G EML Laser Chip to Ensure Production
- Parameter Tests for Superior Performance, Quality, and Reliability
- High-speed Connectivity Compliant to IEEE 802.3ck
- Hot Pluggable QSFP-DD MSA Compliant
- Support 2x400G Breakout for Higher Port Density
- 8x106.25G PAM4 Retimed 2x400GAUI-4 C2M Electrical Interface
- Digital Optical Monitoring Capability for Strong Diagnostic Capabilities



JT-800G-QSFPDD-2LR4

DIRECT ATTACHED CABLES (DAC)

TWINAX COPPER CABLE

- **10G SFP+**
- **25G SFP28**
- **40G QSFP+**
- **100G QSFP28**
- **200G QSFP56**
- **400G QSFP-DD**
- **800G QSFP-DD**

A Direct Attach Copper cable or a DAC cable is a twinax copper cable that connects directly the ports (or line cards) within active equipment, such as switches, routers, servers or data storage devices, in a data network. JTOPTICS[®] DAC cables are compatible with: Cisco, Finisar, Juniper, Arista, Dell, HPE, Extreme, Brocade, Mellanox, H3C, Intel, IBM, Nokia, Ciena, etc.



DIRECT ATTACHED CABLES

10G

SFP+ to SFP+ DAC

10G DAC CABLE 10GBASE-CR SFP+ PASSIVE TWINAX COPPER CABLE

- Hot-pluggable SFP+ DAC cable assembly
- Data rate up to 10.3125Gbps
- Data rates backward compatible to 1Gb/s
- Hot-pluggable SFP+ 20PIN footprint
- 1x 10G NRZ electrical interface
- Compliant with SFP+ MSA, IEEE 802.3
- Compliant to SFF-8431 and SFF-8432
- Low power dissipation
- Operating case temp. range 0°C to +70°C
- RoHS-6 compliant (lead free)



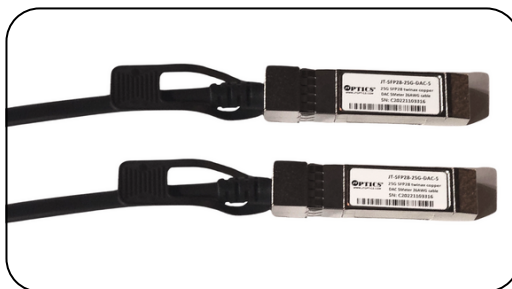
JT-SFP-10G-DAC

25G

SFP28 to SFP28 DAC

25G DAC CABLE SFP28 TO SFP28 PASSIVE TWINAX COPPER CABLE

- Hot-pluggable SFP28 DAC cable assembly
- Data rate up to 25.78125Gbps
- 1x 25G NRZ electrical interface
- Compatible to SFP28 MSA
- Compatible to SFF-8402 and SFF-8432
- Power consumption < 0.1W
- Single 3.3V power supply
- Low power dissipation
- Operating case temp. range 0°C to +70°C
- RoHS-6 compliant (lead free)
- Compliant with SFP28 MSA, IEEE 802.3 & InfiniBand EDR
- RoHS compliant (lead free)



JT-SFP28-25G-DAC

40G

QSFP+ To QSFP+ DAC

40G DAC CABLE QSFP+ TO QSFP+ PASSIVE TWINAX COPPER CABLE

- Hot-pluggable QSFP+ DAC cable assemblies
- 4-channel full-duplex passive copper cable
- SFF-8436 compliant QSFP+ connectors
- 4x 10G NRZ electrical interface
- IEEE 802.3ba 40GBASE-CR4 compliant
- Compliant with QSFP+ MSA and IEEE 802.3
- Data rate up to 40Gbps (4x 10Gbps)
- Low power consumption: 0.02W (typ.)
- Excellent signal integrity and low insertion loss
- Operating case temperature range: 0°C to +70°C
- Single 3.3V supply voltage
- RoHS compliant



JT-QSFP-40G-DAC

40G

QSFP+ To 4XSFP+ DAC

40G BREAKOUT DAC CABLE QSFP+ TO 4XSFP+ PASSIVE TWINAX CABLE

- Hot-pluggable QSFP+ DAC cable assemblies
- 4-channel full-duplex passive copper cable
- SFF-8436 compliant QSFP+ connectors
- 4x 10G NRZ electrical interface
- IEEE 802.3ba 40GBASE-CR4 compliant
- Compliant with QSFP+ MSA and IEEE 802.3
- Data rate up to 40Gbps (4x 10Gbps)
- Low power consumption: 0.02W (typ.)
- Excellent signal integrity and low insertion loss
- Operating case temperature range: 0°C to +70°C
- Single 3.3V supply voltage
- RoHS compliant



JT-QSFP-SFP-40G-DAC

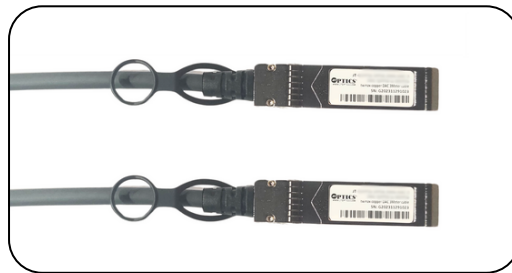
DIRECT ATTACHED CABLES

50G

SFP56 to SFP56 DAC

50G DAC CABLE SFP56 TO SFP56 PASSIVE TWINAX COPPER CABLE

- Data rate up to 53.125Gbps & 53Gb/s
- PAM4 modulation
- Hot-pluggable SFP56 form factor
- SFP56 MSA, SFF-8636 & RoHS-6 compliant
- LF (Lead Free) HF (Halogen Free) PCB
- Single 3.3V supply voltage
- Operating case temperature range 0°C to +70°C
- Bit Error Rate (BER) better than 1E-15



JT-SFP56-50G-DAC

100G

QSFP28 To QSFP28 DAC

100G DAC CABLE QSFP28 TO QSFP28 PASSIVE TWINAX COPPER CABLE

- 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 & crosstalk
- Single 3.3V supply voltage & Low power dissipation
- Operating case temp. range: 0°C to +70°C



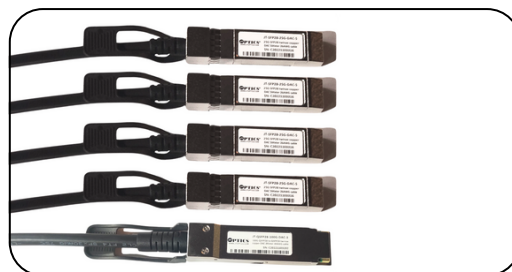
JT-QSFP28-100G-DAC

100G

QSFP28 To 4XSFP28 DAC

100G DAC CABLE QSFP28 TO 4XSFP28 BREAKOUT PASSIVE TWINAX CABLE

- Hot-pluggable QSFP28 DAC cable assemblies
- 4-channel full-duplex passive copper cable
- SFF-8665/SFF-8402 compliant QSFP28/SFP28 connectors
- Compliant with QSFP28 MSA and IEEE 802.3
- 4x 25G NRZ electrical interface
- SFF-8636 compliant I2C management interface
- IEEE 802.3bj 100GBASE-CR4 compliant
- IEEE 802.3by 25GBASE-CR compliant
- Data rate up to 100Gbps (4x 25Gbps)
- Excellent signal integrity, low insertion loss and low crosstalk
- Single 3.3V supply voltage
- Low power dissipation
- Operating case temp. range: 0°C to +70°C



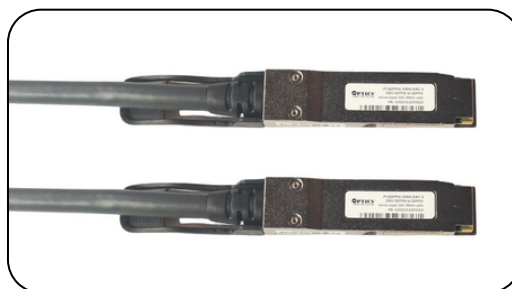
JT-QSFP28-SFP28-100G-DAC

200G

QSFP56 To QSFP56 DAC

200G DAC CABLE QSFP56 TO QSFP56 PASSIVE TWINAX COPPER CABLE

- Hot-pluggable QSFP56 form factor
- Data rate up to 212.5Gbps
- 4x 53Gb/s PAM4 modulation
- QSFP56 MSA compliant
- Operating case temperature of 0-70°C
- Single 3.3V supply voltage
- Bit Error Rate (BER) better than 1E-15
- SFF-8636 compliant
- I2C management interface
- Data rate up to 53.125Gbps per channel.
- Compliant with QSFP56 MSA, CMIS and IEEE 802.3
- Low power dissipation



JT-QSFP-SFP-40G-DAC

DIRECT ATTACHED CABLES

200G

QSFP56 To 2XQSFP28 DAC

200G DAC CABLE QSFP28-DD TO 2XQSFP28 PASSIVE TWINAX CABLE

- Hot-pluggable QSFP-DD DAC cable assemblies
- 8x 25G NRZ electrical interface
- Data rate up to 25.78125Gbps per channel.
- Compliant with QSFP-DD MSA, CMIS and IEEE 802.3
- Low power consumption
- Commercial case operating temp. range
- Single 3.3V power supply
- RoHS compliant (lead free)
- Minimum Bend Radius 35mm for Flexible Routing
- Supports 200G to 2x 100G Ethernet Interoperability



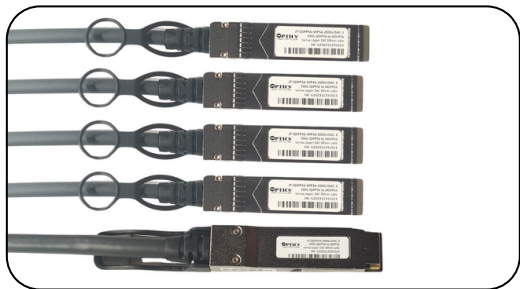
JT-QSFP28DD-QSFP28-200G-DAC

200G

QSFP56 To 4XSFP56 DAC

200G TO 4X50G DAC CABLE QSFP56 TO SFP56 PASSIVE TWINAX CABLE

- Hot-pluggable QSFP56/SFP56 form factor
- Data rate up to 212.5Gbps
- QSFP56/SFP56 MSA compliant
- 4x 53Gb/s PAM4 modulation
- QSFP56 MSA compliant
- Operating case temperature of 0-70°C
- Single 3.3V supply voltage
- Bit Error Rate (BER) better than 1E-15
- RoHS compliant
- SFF-8636 compliant
- I2C management interface
- Data rate up to 53.125Gbps per channel.
- Low power dissipation



JT-QSFP56-SFP56-200G-DAC

400G

QSFP-DD To QSFP-DD DAC

400G DAC CABLE QSFP-DD TO QSFP-DD 26AWG , DIRECT ATTACHED CABLE

- 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
- Data rate up to 53.125Gbps per channel.
- Low power dissipation
- Excellent signal integrity, low insertion & crosstalk
- Minimum Bend Radius 33.5mm



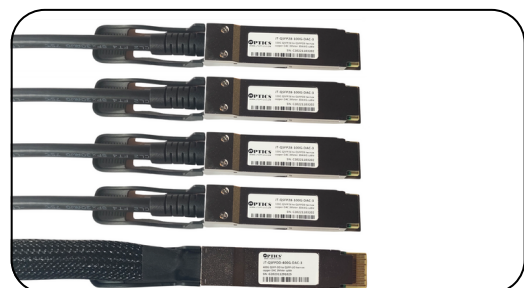
JT-QSFPDD-400G-DAC

400G

QSFP-DD To 4XQSFP28 DAC

400G DAC CABLE QSFP-DD TO 4XQSFP28 26AWG, DIRECT ATTACHED CABLE

- 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 & Low power dissipation
- Bit Error Rate (BER) better than 1E-15
- Minimum Bend Radius 33.5mm & RoHS compliant
- Data rate up to 53.125Gbps per channel.
- Excellent signal integrity & low insertion loss



JT-QSFPDD-QSFP28-400G-DAC

DIRECT ATTACHED CABLES

400G

QSFP-DD To 8XSFP56 DAC

400G DAC CABLE QSFP-DD TO 8XSFP56 26AWG, DIRECT ATTACHED CABLE

- 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 & Low power dissipation
- Bit Error Rate (BER) better than 1E-15
- RoHS compliant, Minimum Bend Radius 33.5mm
- Data rate up to 53.125Gbps per channel.
- Excellent signal integrity & low insertion loss



JT-QSFPDD-SFP56-400G-DAC

800G

800G QSFP-DD DAC

800G DAC CABLE QSFP-DD TO QSFP-DD 26AWG, PASSIVE DIRECT ATTACHED CABLE

- Hot-pluggable QSFP-DD DAC cable assemblies
- 8x 100G PAM4 electrical interface
- Data rate up to 106.25Gbps per channel.
- Compliant with QSFP-DD MSA, CMIS & IEEE 802.3
- Support 800G for Higher Port Density
- Low power dissipation
- Commercial case operating temp. range
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant
- Low power dissipation Excellent
- signal integrity & low insertion loss
- Minimum Bend Radius 69mm



JT-QSFPDD-800G-DAC



ACTIVE OPTICAL CABLES (AOC)

- **10G SFP+**
- **25G SFP28**
- **40G QSFP+**
- **100G QSFP28**
- **200G QSFP56**
- **400G QSFP-DD**
- **800G QSFP-DD**

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. JTOPTICS AOC Cables are Compatible with: Cisco, Finisar, Juniper, Arista, Dell, HPE, Extreme, Brocade, Mellanox, H3C, Intel, IBM, Nokia, Ciena, etc.

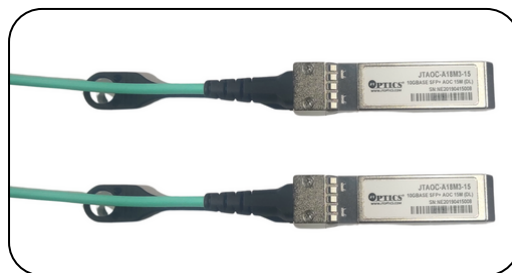


10G

SFP+ to SFP+ AOC

10GBASE-SR SFP+ OM3 MULTIMODE AOC CABLE

- SFF-8431 compliant & SFP+ form-factor connectors
- 1x 10G NRZ electrical interface
- Hot-pluggable electrical interface
- Transmission data rate up to 10.3Gbps
- 850nm VCSEL laser and PIN photodetector.
- Low power consumption < 1W per end
- Compliant with InfiniBand QDR
- Length up to 300m using OM2 MMF
- All-metal housing for superior EMI performance
- Operating case temp. range 0°C to +70°C
- 3.3V power supply voltage
- RoHS-6 compliant (lead free)



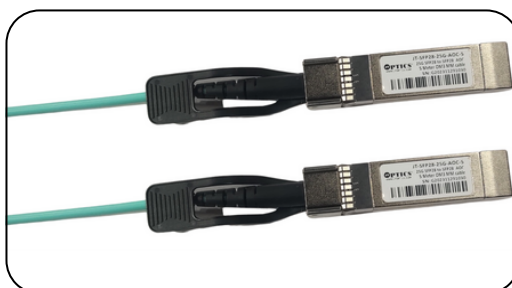
JT-SFP-10G-AOC

25G

SFP28 to SFP28 AOC

25GBASE-SR SFP28 OM3 MULTIMODE AOC CABLE

- Hot-pluggable SFP28 AOC cable assemblies
- 1x 25G NRZ electrical interface
- 1x 25G NRZ optical interface
- Data rate up to 25.78125Gbps per channel.
- Compliant with SFP28 MSA, 25GBASE-SR Ethernet
- 850nm VCSEL laser and PIN photodetector.
- Low power consumption < 1W per end
- Compliant with InfiniBand QDR
- Length up to 300m using OM3 MMF
- Operating case temp. range 0°C to +70°C
- 3.3V power supply voltage
- RoHS-6 compliant (lead free)



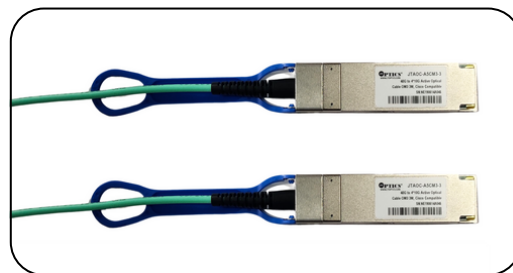
JT-SFP28-25G-AOC

40G

QSFP+ to QSFP+ AOC

40GBASE-SR4 QSFP+ OM3 MULTIMODE AOC CABLE

- Hot-pluggable QSFP+ AOC assemblies
- 4x 10G NRZ electrical interface
- Data rate up to 10.3125Gbps per channel
- Compliant with QSFP+ MSA, 40GBASE-SR4 Ethernet
- 850nm VCSEL laser & PIN photodetector.
- Low power consumption < 1W per end
- Compliant with InfiniBand QDR
- Length up to 100m using OM3 MMF
- Operating case temp. range 0°C to +70°C
- 3.3V power supply voltage
- RoHS-6 compliant (lead free)



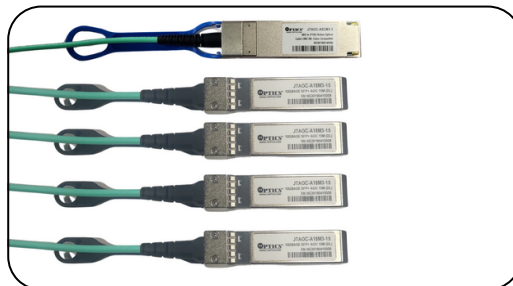
JT-QSFP-40G-AOC

40G

QSFP+ To 4XSFP+ AOC

40GBASE-SR4 QSFP+ TO 4XSFP+ OM3 MULTIMODE AOC CABLE

- Hot-pluggable QSFP+/SFP+ form factor full duplex
- 4-channel 850nm VCSEL and PIN photodetector.
- Data rate up to 10.3125Gbps per channel.
- Compliant with QSFP+ MSA (SFF-8436) and SFP+ MSA (SFF-8431)
- Compliant with SFF-8432 and SFF-8472
- Compliant with IEEE 802.3ba 40GBASE-SR4 and IEEE 802.3ae 10GBASE-SR
- Compliant with InfiniBand SDR/DDR/QDR
- MMF with customizable length up to 100m (OM3)
- 1.5W maximum power dissipation per 40G QSFP+ SR4 module
- Case operating case temp. 0 to 70°C
- 3.3V power supply voltage
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFP-SFP-40G-AOC

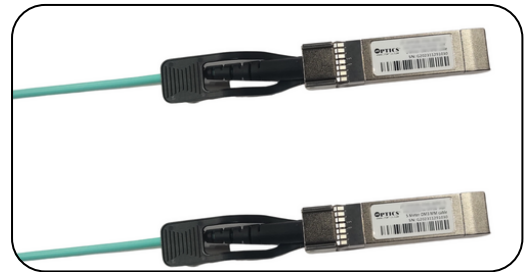
ACTIVE OPTICAL CABLES

50G

SFP56 to SFP56 AOC

50G AOC CABLE SFP56 TO SFP56 ACTIVE OPTICAL CABLE

- full-duplex transceiver modules
- Transmission data rate up to 53Gbps per channel
- 53Gbps PAM4 transmitter and PAM4 receiver
- 850nm VCSEL array & PIN photo detector array
- Internal CDR circuits on both receiver & transmitter
- 3.3V power supply voltage & Power consumption <2W
- Hot Pluggable SFP form factor and Compliant with SFF-8431, SFF-8472
- Maximum link length of 70m on OM3 MMF & 100m on OM4 MMF with FEC
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant (lead free)



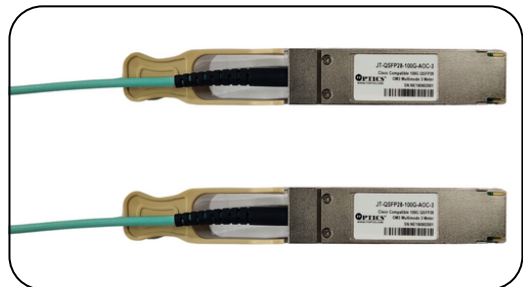
JT-SFP56-50G-AOC

100G

QSFP28 to QSFP28 AOC

100GBASE-SR4 QSFP28 TO QSFP28 OM3 MULTIMODE AOC CABLE

- 4 channels full-duplex transceiver modules
- Supports 100Gbps total data rate.
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- MMF with customizable length up to 70m (OM3)
- 4x 25G NRZ electrical interface
- Low power consumption <3.5W
- Data rate up to 25.78125Gbps per channel.
- Compliant with QSFP28 MSA, 100GBASE-SR4 Ethernet
- Case operating case temperature: 0 to 70°C
- 3.3V power supply voltage
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFP28-100G-AOC

100G

QSFP28 To 4XSFP28 AOC

100GBASE-SR4 QSFP28 TO 4XSFP28 OM3 MULTIMODE AOC CABLE

- Hot Pluggable QSFP28 and SFP28 MSA Compliant
- 4 channels full-duplex transceiver modules
- Supports 100Gbps total data rate.
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- MMF cable with customizable length up to 70m (OM3)
- Electrical interface compliant to SFF-8436 & SFF-8431
- 4x 25G NRZ electrical interface
- Low power consumption <3.5W
- Data rate up to 25.78125Gbps per channel.
- Case operating case temp. 0 to 70°C
- 3.3V power supply voltage
- RoHS compliant (lead free)



JT-QSFP28-SFP28-100G-AOC

200G

QSFP56 to QSFP56 AOC

200GBASE-SR4 QSFP56 TO QSFP56 MULTIMODE AOC CABLE

- Hot-pluggable QSFP56 form factor full-duplex Module
- 4-CH 850nm VCSEL array & PIN photo-detector array
- Data rate up to 53.125Gbps (26.5625GBd PAM4) per CH
- 200GAUI-4 electrical interface
- Compliant with QSFP56 MSA, CMIS 4.0 and IEEE 802.3cd 200GBASE-SR4
- Compliant with IEEE 802.3bm 100GBASE-SR4 and InfiniBand EDR/HDR
- Built-in 200G PAM4 DSP
- MMF cable with customizable length up to 70M (OM3) & 100m (OM4)
- 5W max. power dissipation per 200G QSFP56 SR4
- Case operating case temp. 0 to 70°C
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFP56-200G-AOC

200G QSFP56 To 2XQSFP28 AOC

200GBASE-SR4 QSFP-DD TO 2XQSFP28 MULTIMODE AOC CABLE

- Hot Pluggable QSFP-DD and QSFP28 MSA Compliant
- 4-channel 850nm VCSEL and PIN photodetector array
- Supports 200G to 2x 100G Ethernet Interoperability
- 8x 25G NRZ electrical interface
- Data rate up to 25.78125Gbps per channel.
- Compliant with QSFP-DD MSA, CMIS and IEEE 802.3
- Single 3.3V power supply & Low power dissipation
- Max. Power Consumption 4W
- Commercial or industrial case operating temp. range
- MMF cable with customizable length up to 70M (OM3) & 100m (OM4)
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFPDD-QSFP28-200G-AOC

400G QSFP-DD To QSFP-DD AOC

400GBASE-SR8 QSFP-DD TO QSFP-DD MULTIMODE AOC CABLE

- Hot-pluggable QSFP-DD AOC assemblies
- 8x 50G PAM4 electrical interface
- Data rate up to 53.125Gbps per channel.
- 8-channels 850nm VCSEL & PIN photodetector array
- Compliant with QSFP-DD MSA, CMIS and IEEE 802.3
- Low power dissipation
- Compliant with IEEE 802.3cd 200GBASE-SR4 and InfiniBand HDR/HDR100
- MMF cable with customizable length up to 70m OM3 or 100m (OM4/OM5)
- 10W maximum power dissipation per 400G QSFPDD SR8 module
- Commercial case operating temp. range
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)

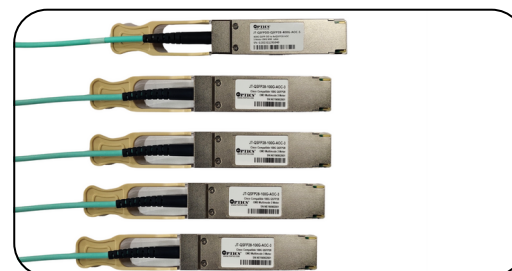


JT-QSFPDD-400G-AOC

400G QSFP-DD To 4XQSFP28 AOC

400GBASE-SR8 QSFP-DD TO 4XQSFP28 MULTIMODE AOC CABLE

- Hot-pluggable QSFP-DD/QSFP28 form factor full-duplex transceiver
- 8-channels 850nm VCSEL array and PIN photodetector array
- Data rate up to 53.125Gbps (26.5625GBd PAM4) per channel
- 400GAUI-8 and 100GAUI-2 electrical interfaces
- Compliant with QSFP-DD MSA, CMIS 4.0 and IEEE 802.3cm 400GBASE-SR8
- Compliant with InfiniBand HDR/HDR100
- MMF cable with customizable length up to 70m OM3 or 100m (OM4/OM5)
- 9W maximum power dissipation each side
- Operating case temperature 0 to 70°C
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFPDD-QSFP28-400G-AOC

400G QSFP-DD To 2XQSFP56 AOC

400GBASE-SR8 QSFP-DD TO 2XQSFP56 MULTIMODE AOC CABLE

- Hot-pluggable QSFP-DD/QSFP56 form factor full-duplex transceiver
- 8-channels 850nm VCSEL array and PIN photodetector array
- Data rate up to 53.125Gbps (26.5625GBd PAM4) per channel.
- 400GAUI-8 and 200GAUI-4 electrical interfaces
- Compliant with QSFP-DD MSA, CMIS 4.0 and IEEE 802.3cm 400GBASE-SR8
- Compliant with QSFP56 MSA and IEEE 802.3cd 200GBASE-SR4
- Compliant with InfiniBand HDR/HDR100
- MMF cable with customizable length up to 70m OM3 or 100m (OM4/OM5)
- 9W maximum power dissipation each side
- Operating case temperature 0 to 70°C
- Single 3.3V power supply & Built-in digital diagnostic functionality
- RoHS compliant (lead free)



JT-QSFPDD-QSFP56-400G-AOC

400G

QSFP-DD To 8XSFP56 AOC

400GBASE-SR8 QSFP-DD TO 8XSFP56 MULTIMODE AOC CABLE

- Hot Pluggable QSFP-DD and SFP56 MSA Compliant
- 8-channels 850nm VCSEL array and PIN photodetector array
- Data rate up to 53.125Gbps (26.5625GBd PAM4) per channel.
- 400GAUI-8 electrical interfaces
- Compliant with QSFP-DD MSA, CMIS 4.0 and IEEE 802.3cm 400GBASE-SR8
- Supports 400G to 8x 50G Ethernet Interoperability
- Compliant with InfiniBand HDR/HDR100
- MMF cable with customizable length up to 70m (OM3) or 100m (OM4/OM5)
- 10W maximum power dissipation each side
- Operating case temperature 0 to 70°C
- Single 3.3V power supply
- Built-in digital diagnostic functionality
- RoHS compliant (lead free)



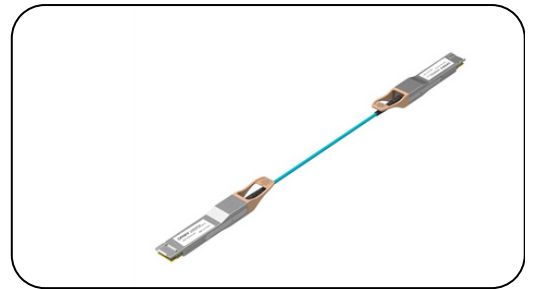
JT-QSFPDD-SFP56-400G-AOC

800G

800G QSFP-DD DAC

800GBASE-SR8 QSFP-DD TO QSFP-DD MULTIMODE AOC CABLE

- 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



JT-QSFPDD-800G-AOC



PREMIUM PATCH CABLES

LC

CS

SC

E2K

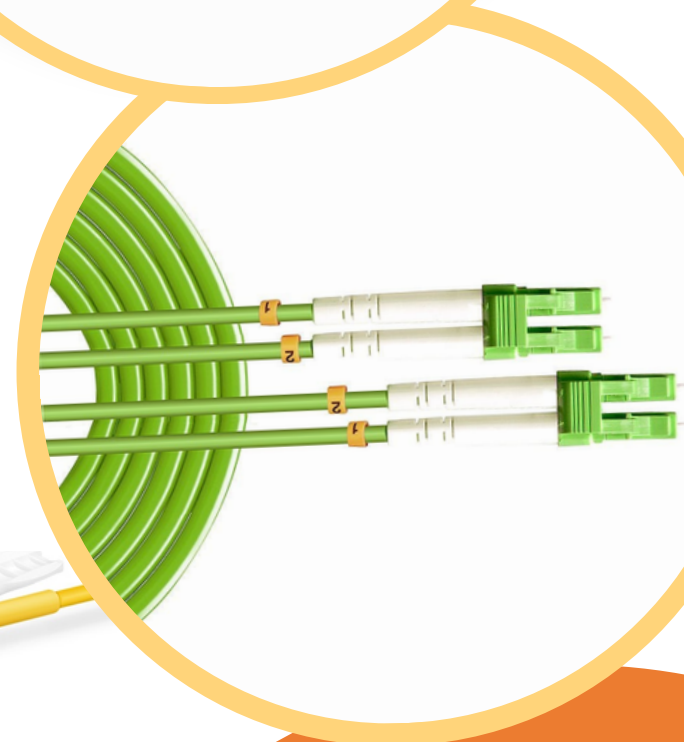
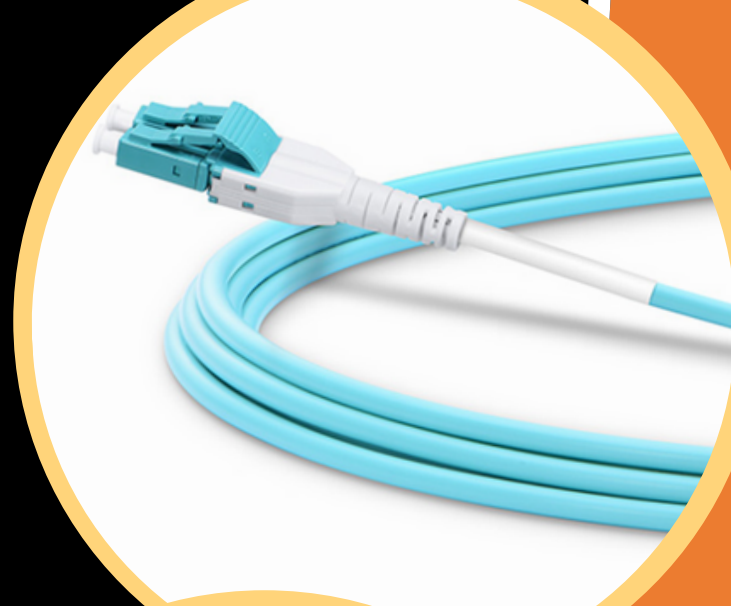
Uni-Boot Patch Cable

Push-Pull Patch Cable

Flex-Boot Patch Cable

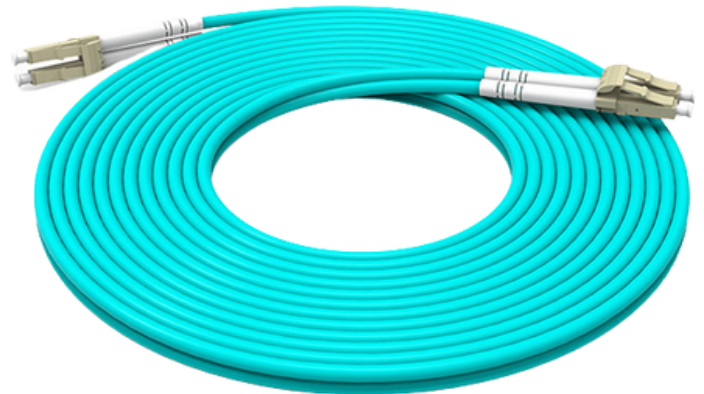
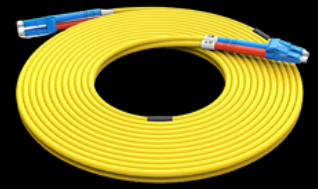
Outdoor FTTA Cables

JTOPTICS® Fiber patch cords are terminated with premium grade zirconia ferrule connectors which help assure high transmission quality and low optical power loss. JTOPTICS® high density patch cables with uni-boot, push-pull & angled boot design simplifies fiber operation and reduce cable congestion while routing.



OPTICAL PATCH CABLES

OS2 / OM3 / OM4 / OM5



- Cable with IEC 60332-3-24 fire performance
- IEC, EIA/TIA and Telcordia compliant
- RoHS, REACH and SvHC compliant
- High-quality connectors and Zirconia Ceramic Ferrule
- Low insertion Loss and High Return Loss
- Enhanced optical performance to meet telecom requirement.
- Comply to TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973

UNIBOOT PUSH-PULL CONNECTOR

JTOPTICS uniboot LC connector featuring the Push-Pull Tab is a distinctive design enables easy polarity switching without the need for any tools. The Push/Pull Tab is ergonomically designed, making it effortless to insert and pull out from the LC adapter. An additional innovative feature is the removable tab after insertion, streamlining the installation process and enhancing overall efficiency.



UNIBOOT CONNECTOR

JTOPTICS uniboot LC-LC Fiber patch cable is constructed with advanced flat clip Uniboot LC connectors, specifically tailored for high-density data center settings, as seen in UHD series products. Its streamlined design reduces bulk fiber optic cabling by 50% compared to traditional duplex cables, featuring a thinner body. The cable employs a unique "round duplex" design, enabling duplex transmission within a single 2mm cable. These characteristics enhance airflow and visibility in high-density network environments.

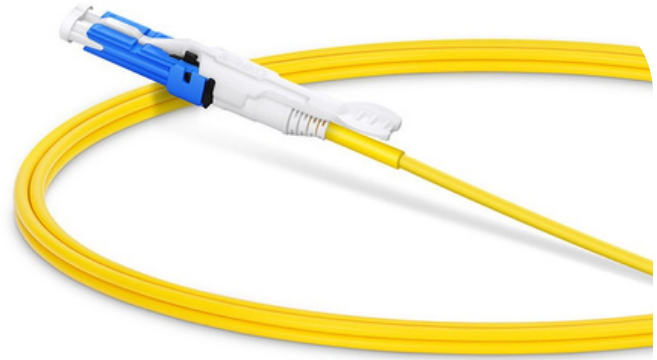


FLEXIBLE ANGLE BOOT CONNECTOR

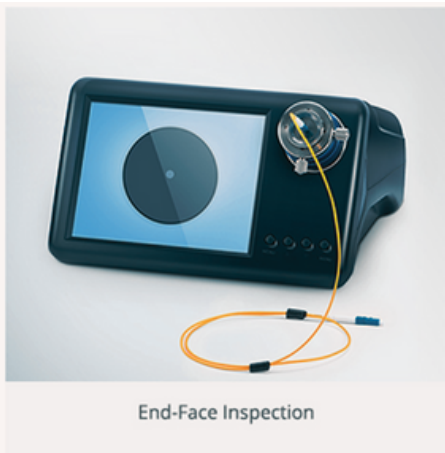
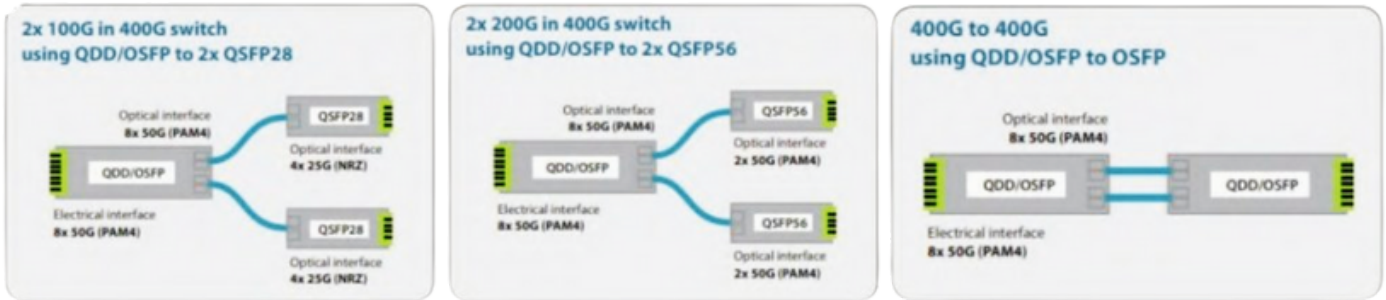
JTOPTICS offers flexible angle boots designed for LC and SC fiber optic connectors, compatible with both single-mode and multimode patch cords. Installers can pre-bend the boot into any direction or angle, maintaining the position for optimal network performance. The flexibility allows for reshaping at any time or straightening during connector disconnection, facilitating perfect installations in unique applications like tight constraint areas or high-density environments. These fiber optic patch cords with LC and SC flex boots are ideal for cable management situations requiring additional fiber bend protection.



JTOPTICS High Quality 2F and 4F CS-CS Fiber Patch Cord uses Senko's new CS connector which is specifically designed for Data Centre 400G optimization. To accommodate the "lightspeed" upgrades currently taking place in hyperscale DCs, the reduced size CS Connector is not only capable of delivering low insertion and high return loss comparable to existing LC connectors, but with significantly reduced footprint.



The CS connector meets the requirement for 2x100G/200G CWDM4 transceivers requiring two pairs of TX/RX. Our CS Cable Assembly support next-generation 200/400 Gbps QSFP-DD and OSFP transceivers with optimized performance and comply with TIA 604 (FOCIS), IEC 61754 and YD/T industry standards.



| ORDERING INFORMATION | | | | | | | | | | | | | | | |
|----------------------|----------|--------|-------|--------|-------|-------|--------|----------------|------------|---------|----|------|----------|-----------|-----------|
| Brand | A End | Polish | B End | Polish | Fiber | Cable | Jacket | Length (Meter) | Boot Type | Quality | | | | | |
| JTJC | JTOPTICS | LC | LC | A APC | LC | LC | A APC | OM3 OM3 | SX Simplex | LZ LSZH | XX | 0-99 | Standard | S | Standard |
| XXXX | OEM | SC | SC | P UPC | SC | SC | P UPC | OM4 OM4 | DX Duplex | PV PVC | | | UB | Uni-boot | P Premium |
| | | FC | FC | | FC | FC | | OM5 OM5 | | OR OFNR | | | PU | Push-Pull | A Armored |
| | | ST | ST | | ST | ST | | OS2 OS2 | | OP OFNP | | | FB | Flex Boot | |
| | | E2 | E2000 | | E2 | E2000 | | | | | | | MB | Mini Boot | |

JTJC-LC-P-LC-P-OS2-DX-LZ-XX-UB-P

FTTA PATCH CABLES

Outdoor Waterproof Cable Assembly



FTTA Patch cord is made of waterproof housing, which fulfills IP67/ IP68 environmental sealing requirements. The cable features a flame retardant LSZH jacket which is UV stabilized and highly resistant to chemicals commonly found in industrial environments, also suitable for both indoor and outdoor industrial installations. The CPRI Patch-cords are standard size for Duplex LC Connectors, widely used in FTTA, Base station, and the outdoor waterproof condition.



- Enhanced optical performance to meet telecom requirement
- Cable with IEC 60332-3-24 fire performance
- IEC, EIA/TIA, Telcordia, RoHS, REACH and SvHC compliant
- High-quality connectors and Zirconia Ceramic Ferrule
- Low insertion Loss and High Return Loss
- IP67/IP68 water and dust protection
- It complies with IEEE 802.1 CM standard
- Flexibility with small bending radius & excellent routing

IP68 Waterproof

Fiber Optic Patch Cable Manufacturer

- 100% IURL Test
- 100% End Face Checking
- 100% Geometry Test Are Available
- 100% IEC Clearing Test Are Available
- Reliability Test Are Available

IP 68
Waterproof grade

| Name | E-CPRI Outdoor Single Mode Aromored waterproof Cable Assembly | NSN Boot Outdoor Single Mode waterproof Aromored Cable Assembly | PDLC Outdoor Single Mode waterproof Aromored Cable Assembly | IPFX Outdoor Single Mode waterproof Aromored Cable Assembly |
|---------------------|---|--|--|---|
| Connector A | LC - LC | LC - LC | LC - LC | LC - LC |
| Polish | UPC - UPC | UPC - UPC | UPC - UPC | UPC - UPC |
| IP | IP 68 | IP 67 | IP 67 | IP 67 |
| Wavelength | 1310/1550nm | 1310/1550nm | 1310/1550nm | 1310/1550nm |
| Fiber Count | Duplex | Duplex | Duplex | Duplex |
| Jacket Material | Armored LSZH | Armored LSZH | Armored LSZH | Armored LSZH |
| Strength Member | Aramid | Aramid | Aramid | Aramid |
| Polarity | A(Tx) to B(Rx) | A(Tx) to B(Rx) | A(Tx) to B(Rx) | A(Tx) to B(Rx) |
| Minimum Bend Radius | 10D (installed) - 20D (loaded) | 10D (installed) - 20D (loaded) | 10D (installed) - 20D (loaded) | 10D (installed) - 20D (loaded) |
| Applications | Fiber to the Antenna | Fiber to the Antenna | Fiber to the Antenna | Fiber to the Antenna |

HIGH DENSITY LIU ENCLOSURE

Ultra HD Rack Mount Enclosure

HD Patch Panel (ODF)

HD/UHD MPO cassette



JTOPTICS® rack mount high density fiber enclosure uses the cassette platform to provide a premium ultra-high-density solution for inter-connects or cross-connects between backbone cable and active equipment. It is the ideal for ultra-high-density fiber applications in data centres.

Our High-Density Series is a versatile solution in multiple sizes (1U/2U/4U) and styles for building backbones, data centers and enterprise applications

ULTRA HIGH DENSITY ENCLOSURE

JTOPTICS® Ultra High-Density rack mount enclosure, which can house up to 12 Pcs (JTMPFDHX1), 24 Pcs (JTMPFDHX2) and 48 Pcs (JTMPFDHX4) UHD series MPO modular cassettes or fiber adapter panels. It provides high density flexible system for managing fiber terminations, connections, and patching in data center application to maximizing rack space utilization and minimizing floor space. JTOPTICS® UHD fiber optic enclosure houses, organizes, manages, and protects fiber optic cable terminations. UHD series is made of aluminum alloy, Designed for 19" rack-mount cabinet.

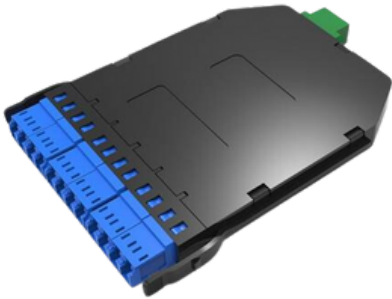
UHD Ultra HD Fiber Rack-mount Enclosure

- Matching for UHD series cassettes.
- Adjustable mounting brackets.
- Mount to Standard EIA 19" Rack mountable
- Provides the highest levels of density and serviceability.
- Maintain Proper Bend Radius to Eliminate Cable Stress
- Transparent Doors Offer Easier Access and Visibility.



| Part No | Product Description |
|-----------|--|
| JTMPFDHX1 | 144 Fiber 1U Rack Mount Ultra High Density (UHD) Modular ODF, Hold Upto 12 UHD Cassettes |
| JTMPFDHX2 | 288 fibers 2u rack mount Ultra HD fiber panel unloaded, holds up to 24 UHD mpo cassettes |
| JTMPFDHX4 | 576 fibers 4u rack mount ultra HD fiber panel unloaded, holds up to 48 UHD mpo cassettes |

UHD Ultra HD MPO Cassette Box



JTMP212MOSMLCPA



JTMP312MOSMLCPA

| Part No | Product Description |
|-----------------|---|
| JTMP212MOSMLCPA | 12 fibers mpo-12 to 2 lc pc sm, Ultra high density (UHD) mpo cassette box |
| JTMP312MOSMLCPA | 12 fibers mpo-12 to 2 lc pc mm, Ultra high density (UHD) mpo cassette box |

HD High Density Patch Panel (ODF)

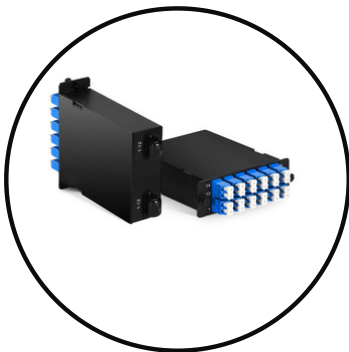
- Matching for HD series cassettes.
- Adjustable mounting brackets.
- Mount to Standard EIA 19" Rack mountable
- Provides the high levels of density and serviceability.
- Maintain Proper Bend Radius to Eliminate Cable Stress
- Removable top cover, hinged plexi-glass door
- Side patch cord exit
- RoHS, REACH, SvHC compliant
- Operating Temperature: -40°C to 70°C



| Part No | Product Description |
|------------------|--|
| JTMPFDSF1 | 1U 96 Fiber Rack Mount HD Fiber Enclosure, Hold Up-to 4 HD LGX Cassettes |
| JTMPFDSF3 | 3U 288 Fiber Rack Mount HD Fiber Enclosure, Hold Up-to 12 HD LGX Cassettes |
| JTMPFDHF1 | 1U 96 Fiber Rack Mount HD Fiber Enclosure, Hold Up-to 4 HD LGX Cassettes |

HD HD MPO Cassette Box

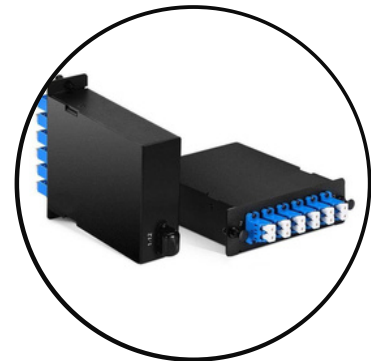
- High density pre-terminated fiber optic system
- Complied to ANSI/TIA-568-C.3, IEEE 802.3ba
- Ultra Low Insertion Loss and high return loss
- Aluminum alloy shell protect the inner fibers effectively.
- Compatible with High Density HD ODF
- High-quality MPO connectors
- Universal Polarity design
- Pre-terminated Rear 12-Fiber MPO Adapter
- Pre-Terminated Front LC Adapters
- Pre-Installed MPO-LC Fan-Out Cable



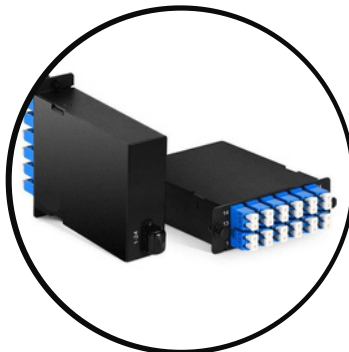
JTMPM212MOSMLCPB2



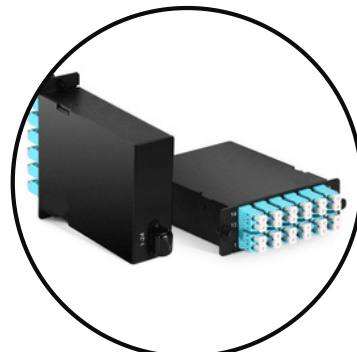
JTMPM312MOSMLCPB2



JTMPM212MOSMLCPB



JTMPM224MOSMLCPB



JTMPM324MOSMLCPB



JTMPM312MOSMLCPB

OFC Connector & Tools

Couplers / Attenuators / Cleaner



JTOPTICS tools product offering includes a full range of passive solutions featuring our exclusive Active Core Alignment process, as well as the equipment and tools necessary for installation, cleaning and inspection.



Cassette Connector Cleaner



2.5mm Connector Cleaning Pen



LC 1.25mm Connector Cleaning Pen



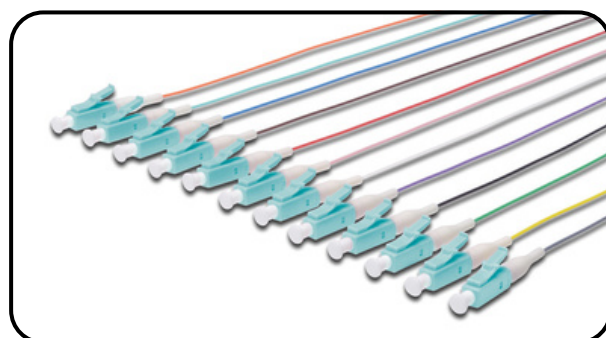
MPO/MTP Connector Cleaning Pen



Optical Fiber Attenuators



Optical Fiber Adaptor / Coupler

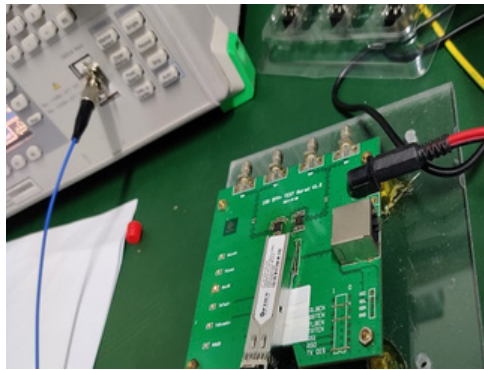
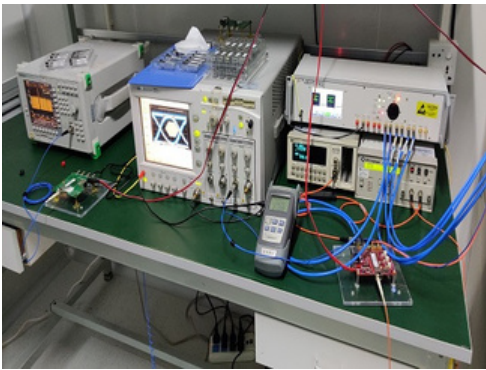
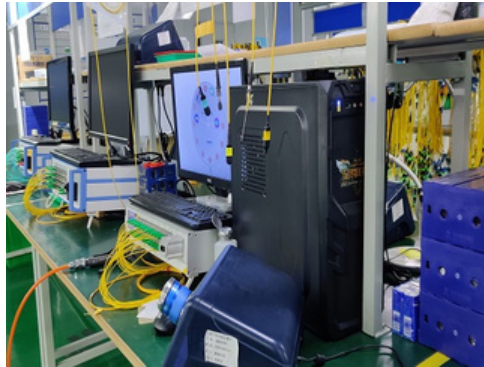
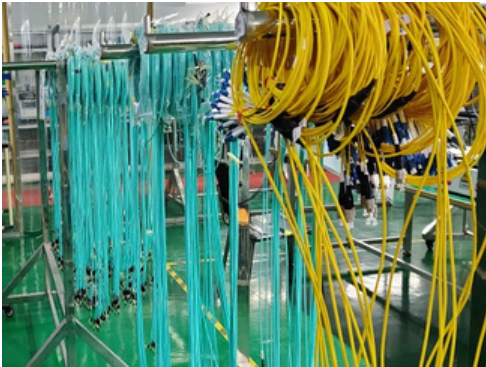
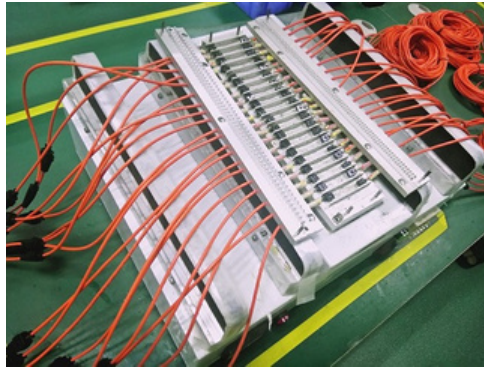


Optical Fiber Pigtaills



Cable Managers

Our Facility





Our Clients

ciena

ADVA[™]
Optical Networking

colt

CISCO

Coriant

MAVENIR



इसरो isro



JUNIPER
NETWORKS

TEJAS[®]
NETWORKS

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS

HITACHI

एनटीपीसी
NTPC

TATA

LARSEN & TOUBRO

netmagic[®]
An NTT Communications Company

पे PhonePe

Google

CtrlS[™]

Web Werks[®]
DATA CENTERS



**PERFORMANCE, RELIABILITY, BEST-IN-CLASS
CONNECTIVITY**

Advance Solution For Data Centers Need..



Our Contact




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India

Singapore


Malaysia

Qatar

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