100G/200G/400G QSFP-DD QSFP28/SFP28/SFP+

GigaLight

Optical
Transceivers

GigaLight

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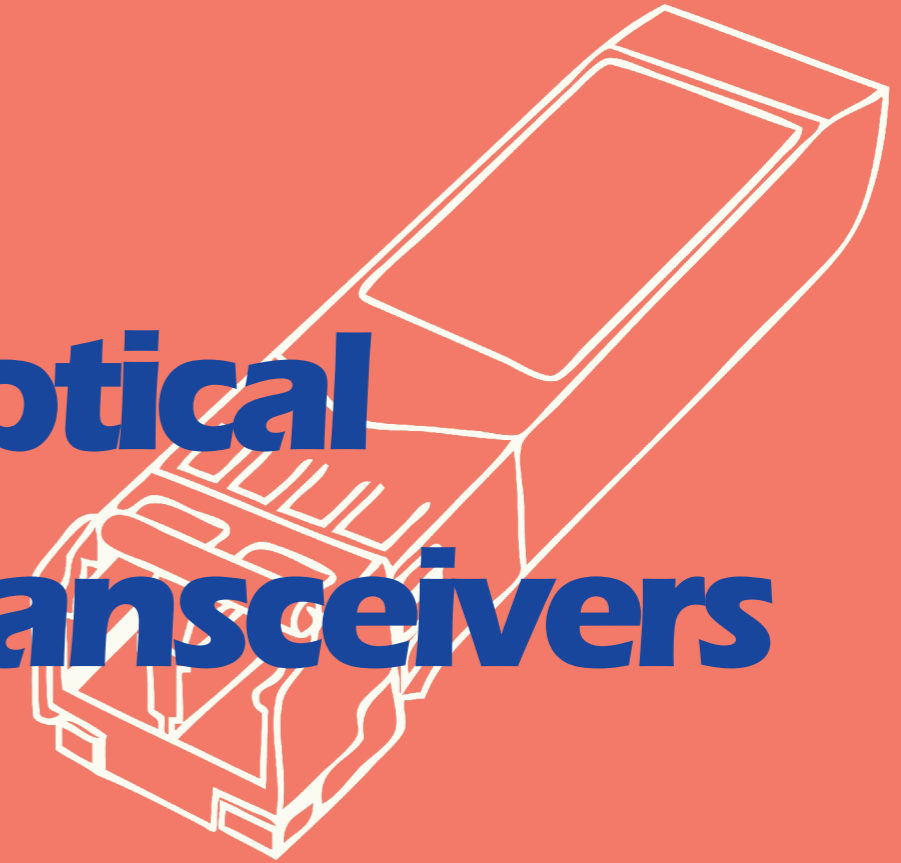Email: sales@gigalight.com
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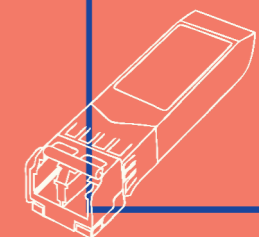Technical Support: tech@gigalight.com
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Data Center & Cloud Computing
SAN(Fiber Channel)
Deep Packet Inspection
Metro & Broadcast
Wireless & 5G

Company Profile

Milestones

2006-2009

Gigalight was committed to R&D and production of optical devices under 10Gbps, building the global channel market of optical transceiver modules;

2010-2011

Gigalight sold 10G optical transceivers in quantity and launched 10G/40G/120G Active Optical Cables;

2012-2013

Gigalight invested into Optical Passive Components product line and HD Video Optical Transceiver industry Invested on Optical Passive Components product line and video HD optical modules;

2014

Gigalight accomplished the commercialized process of 10G/40G Active Optical Cables in Data Center; meanwhile launched GIGAC high-density MTP/MPO cloud cabling products;

2015

Gigalight launched 40G optical transceivers and Consumer USB3.0/HDMI1.4 Active Optical Cables;

2016

Gigalight launched 100G VCSEL optical transceivers and Active Optical Cables, and finished the development of the product ecosystem: Cloud Programmer and E-Commerce platform - www.infiberone.com, etc;
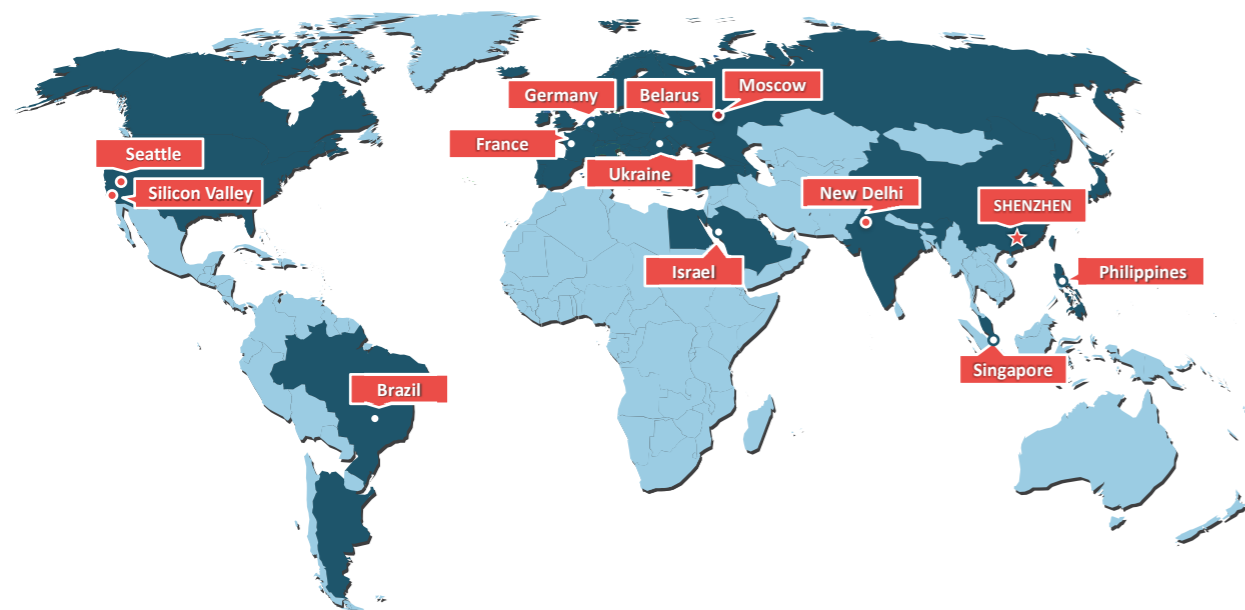
2017

Gigalight launched 200G VCSEL optical transceivers, 100G MAN optical transceivers and 100G optical transceivers for long-distance transmission in Data Center;

2018

Gigalight will deploy and launch 400G optical interconnect products in Data Center and related DCI optical communication products.

Global Distribution

★ **Headquarters:** in Shenzhen, China, includes R&D, production, sales and technical support center.

• **Branch :** in Silicon Valley, USA, and business office in Russia.

○ **Global agents and distributors:** in North America, Brazil, Russia, India, Israel, Europe and Southeast Asia.

CONTENTS

Data Center & Cloud Computing

SAN(Fiber Channel)

Deep Packet Inspection

Metro Area Network

Wireless & 5G

Data Center Solution

Gigalight 100G Transceiver RX only

100G QSFP28 LR4
100G QSFP28 CWDM4

40G QSFP+
40G QSFP+ AOC
100G QSFP28 SR4
100G QSFP28 AOC
100G QSFP28 PSM4
100G QSFP28 CWDM4

25G SFP28
25G SFP28 AOC
40G QSFP AOC
25G SFP28 DAC
100G QSFP28 DAC

Network
DPI
IDC Exit   Splitter   Splitter
Core   Control Link
Aggregation
Access Layer
Server Area 1   Server Area 2   Server Area 3

200G QSFP-DD SR8

Features

- 8 channels full-duplex transceiver modules
- Transmission data rate up to 26Gbps per channel
- 8 channels 850nm VCSEL array
- 8 channels PIN photo detector array
- Internal CDR circuits on both receiver and transmitter channels
- Support CDR bypass
- Low power consumption <3.5W
- Hot Pluggable QSFP-DD form factor
- Maximum link length of 70m on OM3 Multimode Fiber
  (MMF)& 100m on OM4 MMF
- MPO24 connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- IEEE 802.3bm 100GBASE SR4

400G QSFP-DD SR8   preliminary

Features

- QSFP-DD module form factor
- Standard interfaces defined by IEEE802.3cd 200GBASE-SR4
- 8x56G parallel optics architecture
- 8x56G retimed electrical I/O(CAUI-4)
- 100m reach on Om4 MMF and 70m on Om3,(RS-FEC on the host)
- Maximum power dissipation <7W
- Operating case temperature range 0°C to 70°C
- I2C management interface (same as QSFP+)
- Support QSFP-DD MSA
- 2x200GBASE-SR4 Application
- PAM4 CDR ICs can be enabled or disabled on a per-channel
- VCSEL and PIN arrays to ensure high quality optics
- Maximum link length of 70m on OM3 Multimode Fiber (MMF)
  and 100m on OM4 MMF
- MPO24 connector receptacle

200G QSFP-DD PSM8   preliminary

Features

- 8 channels full-duplex transceiver modules
- Transmission data rate up to 26Gbps per channel
- 8 channels DFB-based PSM4 uncooled transmitter
- 8 channels PIN ROSA
- Internal CDR circuits on both receiver and transmitter channels
- Low power consumption<7.0W
- Hot Pluggable QSFP-DD form factor
- Up to 10km reach for G.652 SMF with FEC
- Single MPO24 connectorreceptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)
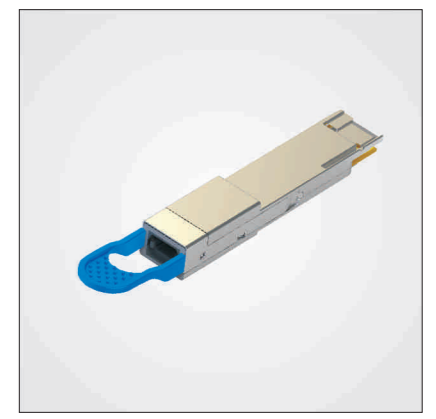
Applications

- High density 200G Ethernet links
- 100G PSM4 applications
- Datacenter and Enterprise networking
- HPC

100G QSFP28 SR4

Features

- 4 channels full-duplex transceiver modules
- Transmission data rate up to 25Gbps per channel
- Support 40GE and 56G FDR data rate
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- Internal CDR circuits on both receiver and transmitter channels
- Support CDR bypass
- Low power consumption <2.5W
- Hot Pluggable QSFP form factor
- Maximum link length of 70m on OM3 Multimode Fiber
  (MMF)and 100m on OM4 MMF
- Single MPO connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- IEEE 802.3bm 100GBASE SR4 and 40GBASE Sr4
- Infiniband FDR/EDR

100G QSFP28 PSM4/Pigatail 10KM

Features

- 4 channels full-duplex transceiver modules
- Transmission data rate up to 26Gbps per channel
- 4 x 26Gb/s DFB-based 1310nm Uncooled transmitter
- 4 channels PIN ROSA
- Internal CDR circuits on both receiver and transmitter channels
- Compliant to 100G PSM4 MSA
- Low power consumption <3.5W
- Hot Pluggable QSFP form factor
- Up to reach10km for G.652 SMF[with KR4 FEC]
- MPO/MTP receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- 100G PSM4 applications
- Infiniband EDR interconnects

100G QSFP28 CWDM4

Features

- 4 channels full-duplex transceiver modules
- Transmission data rate up to 26Gbps per channel
- 4 x 26Gb/s DFB-based CWDM Uncooled transmitter：1271, 1291,
  1311 and 1331 nm
- 4 channels PIN ROSA
- Internal CDR circuits on both receiver and transmitter channels
- Low power consumption <3.5W
- Hot Pluggable QSFP form factor
- Up to reach 2km for G.652 SMF[with KR4 FEC]
- Duplex LC receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- 100G CWDM4 applications
- Infiniband EDR interconnects

100G QSFP28 4WDM 20&40KM

Features

- QSFP28 module form factor, per SFF-8665
- Standard interfaces defined by IEEE 802.3bm & 4WDM MSA
- 4x25G optical architecture on LAN-WDM Cooling & APD-based receiver
- Same LAN-WDM grid as 100GBASE-LR4
- 4x25G retimed electrical I/O (IEEE CAUI-4)
- 30km reach on SMF(2 fibers without FEC)
- 40km reach on SMF(2 fibers with FEC)
- Maximum power dissipation < 3.5W
- Operating case temperature range 0°C to 70°C
- I2C management interface
- Internal CDR on both receiver and transmitter channels

Applications

- Data Center Interconnect
- 100G GE

100G QSFP28 CLR4/4WDM 10KM

Features

- Compliant to CWDM4 MSA and CLR4 Alliance
- Support both host with fec and without fec
- Transmission data rate up to26Gbps per channel
- 4 channels DFB-based cwdm uncooled transmitter
- 4channels PIN ROSA
- 25.78125 Gbit/s x 4 channel Electrical Interface (CAUI4)
- Low power consumption<3.5W
- Hot Pluggable QSFP28 form factor
- Up to 10km reach for G.652 SMF
- Duplex LC receptacles
- Built-in digital diagnostic functions
- Two-wire common management interface (SFF-8636)
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- High density 100G Ethernet links
- 100G CWDM4&CLR4 applications
- Datacenter and Enterprise networking
- High Performance Computing Interconnect

100G QSFP28 LR4/OTU4

Features

- 4 channels full-duplex transceiver modules
- Transmission data rate up to 26Gbps per channel
- 4 x 26Gb/s DFB-based LAN-WDM Cooling transmitter
- 4 channels PIN ROSA
- Internal CDR circuits on both receiver and transmitter channels
- Low power consumption <3.5W
- Hot Pluggable QSFP form factor
- Up to reach 10km for G.652 SMF
- Duplex LC receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- IEEE 802.3ba 100GBASE LR4/OTU4
- 100G QSFP28 LR4 Ethernet

100G QSFP28 ER4 Lite

Features

- 4 channels full-duplex transceiver modules
- Supports data rate up to 111.8Gb/s
- Supports QSFP28 4WDM 40km MSA /100GBASE-ER4 Lite/OTU4
- 4 x 28Gb/s DFB-based LAN-WDM Cooling transmitter
- 4 channels APD ROSA
- Internal CDR circuits on both receiver and transmitter channels
- Low power consumption <4.2W
- Hot Pluggable QSFP form factor
- Up to 30km reach for G.652 SMF without FEC
- Up to 40km reach for G.652 SMF with FEC
- Duplex LC receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- IEEE 802.3ba 100GBASE ER4 Links
- Client-side 100G interconnections
- OTN OTU4

40G QSFP+ SR4

Features

- 4 channels full-duplex transceiver modules
- Transmission data rate up to 10.5Gbps per channel
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- Low power consumption <1.5W
- Hot Pluggable QSFP form factor
- Maximum link length of 100m on OM3 Multimode Fiber (MMF) and 150m on OM4 MMF
- Single MPO connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant (lead free)

Applications

- 40G Ethernet and OTU3
- Datacom/Telecom switch & router connections
- Data Aggregation and Backplane Applications
- Proprietary Protocol and Density Applications
- Infiniband transmission at 4ch SDR, DDR and QDR

40G QSFP+ LR4

Features

- Transmission data rate up to 11.2Gbps per channel
- QSFP+ MSA compliant
- Compliant to IEEE 802.3ba specification for 40GBASE-LR4 links
- 4 CWDM un-cooled DFB lasers, using ITU G.694.2 wavelength grid at 1271, 1291, 1311 and 1331nm
- High Sensitivity PIN-TIA with optical DEMUX
- Up to 10km reach over standard single mode fiber
- Compliant with QDR/DDR Infiniband data rates
- Hot pluggable electrical interface
- Lower power consumption
- Operating case temperature 0°C to +70°C
- 3.3V power supply
- RoHS 6 compliant （lead free）

Applications

- 40G Ethernet
- Infiniband QDR and DDR interconnects
- Client-side 40G Telecom connections

40G QSFP+ PSM4/Pigatail

Features

- Single Mode 8 fibers MPO(APC) connector receptacle
- Maximum power consumption 2.5W
- Housing isolated from connector ground
- Operating case temperature 0°C to +70°C
- Maximum link length of 10km on G652 single mode fiber (SMF)
- 3.3V power supply voltage
- RoHS 6 compliant

Applications

- Infiniband Connectivity SDR/DDR/QDR
- 10GBASE-LR/W 10G Ethernet
- 2/4/8 Gbps Fiber Channel
- Data Centers and Storage Arrays

25G SFP28 SR

Features

- Hot-pluggable SFP28 form factor
- Supports 28Gbps data rate
- Maximum link length of 70m on OM3 MMF & 100m on OM4 MMF
- 850nm VCSEL laser and PIN photo-detector
- Internal CDR on both Transceiver and Receiver channel
- Duplex LC receptacle
- Single 3.3V power supply
- Power dissipation < 1W
- Digital diagnostics functions are available via the I2C interface
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°C

Applications

- 25GBASE-SR Ethernet

10G SFP+ SR

Features

- Optical interface compliant to IEEE 802.3ae
- Supports 10Gbps data rate
- Electrical interface compliant to SFF-8431
- Hot Pluggable
- 850nm VCSEL transmitter, PIN photo-detector
- Maximum link length of 100m on 2000MHz/km MMF
- Low power consumption
- All-metal housing for superior EMI performance
- Advanced firmware allow customer system encryption information to be stored in transceiver
- Cost effective SFP+ solution, enables higher port densities and greater bandwidth
- Operating case temperature: Standard : 0°C~70°C
- RoHS6 compliant(lead free)

Applications

- Tri Rate 2.125/4.25/8.5Gbs Fiber Channel or 4.25/8.5/14.025Gbs Fiber Channel

SAN(Fiber channel)

Data Rate	Form Factor	Distance							
		100m	300m	2km	10km	20km	40km	80km	120km
128G FC	QSFP28	★							
64G FC	QSFP+	★							
32G FC	SFP28	★		★	★				
16G FC	SFP+	★							
8G FC	SFP+		★	★	★	★	★	★	
4G FC	SFP		★		★		★	★	
2G FC	SFP		★	★		★	★	★	★

128GFC QSFP28 SR4

Features

- 4 channels full-duplex transceiver modules
- Transmission 103.1Gbps and 112.2Gbps data rates
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- Internal CDR circuits on both receiver & transmitter channels
- Support CDR bypass
- Low power consumption <2.5W
- Hot Pluggable QSFP form factor
- Maximum link length of 70m on OM3 Multimode Fiber (MMF) and 100m on OM4 MMF
- Single MPO connector receptacle
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

64GFC QSFP+

Features

- Hot-pluggable QSFP+ form factor
- 4 channels full-duplex transceiver modules
- Supports 56Gb/s data rate
- 4 channels 850nm VCSEL array
- 4 channels PIN photo detector array
- Internal CDR circuits on both receiver and transmitter channels
- Power dissipation <1.5W
- Maximum link length of 100m on OM4 MMF
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage

32GFC SFP28 SR

Features

- Hot-pluggable SFP28 form factor
- Supports 28Gbps data rate
- Maximum link length of 70m on OM3 MMF & 100m on OM4 MMF
- 850nm VCSEL laser and PIN photo-detector
- Internal CDR on both Transmitter and Receiver channel
- Duplex LC receptacle
- Single 3.3V power supply
- Power dissipation < 1W
- Digital diagnostics functions are available via the I2C interface
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°C

8GFC/16GFC SFP+

Features

- Compliant with SFF-8431 and IEE802.3ae
- Data rate up to 8.5Gb/s or 14.025Gb/s
- Link length up to 80km
- Low Power Dissipation 1.5W Typical (Maximum:2W)
- -5°C to 70°C Operating Case Temperature
- Single 3.3V power supply
- Diagnostic Performance Monitoring of module temperature, supply Voltages, laser bias current, transmit optical power, receive optical power
- RoHS compliant and lead free

2GFC/4GFC SFP

Features

- Compliant with SFF-8431 and IEE802.3ae
- Data rate up to 2.125Gb/s or 4.25Gb/s
- Link length up to 80km
- Low Power Dissipation 1.5W Typical (Maximum:2W)
- -5°C to 70°C Operating Case Temperature
- Single 3.3V power supply
- Diagnostic Performance Monitoring of module temperature, supply Voltages, laser bias current, transmit optical power, receive optical power
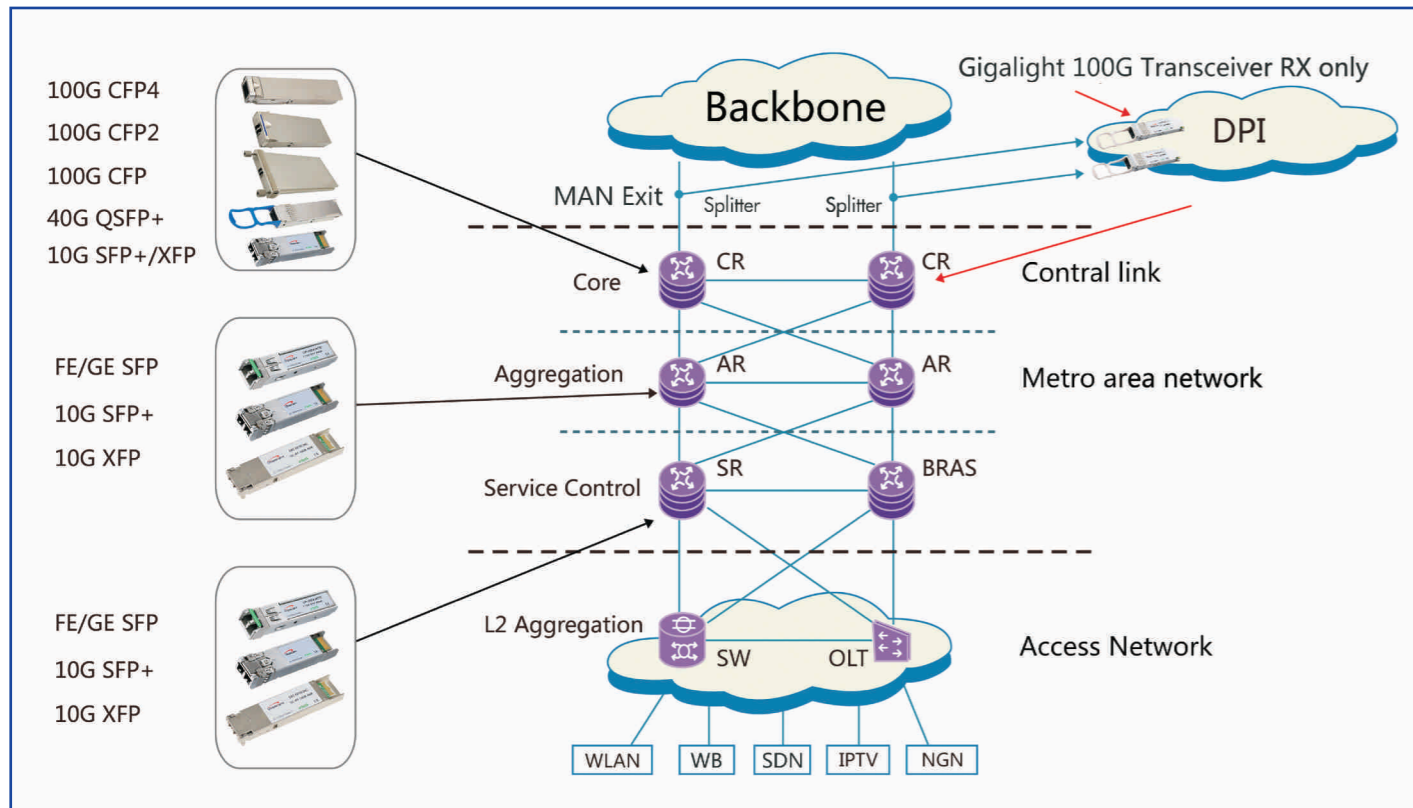- RoHS compliant and lead free

Deep Packet Inspetion Solution

100G QSFP28 ER4 RX Only

Features

- Supports data rate up to 111.8Gb/s
- Supports QSFP28 4WDM 40km MSA/ 100GBASE-ER4 Lite/OTU4 for Receiver
- 4 channels APD ROSA
- Internal CDR circuits on both receiver channel
- Low power consumption <1.5W
- Hot Pluggable QSFP form factor
- Up to 30km reach for G.652 SMF without FEC
- Up to 40km reach for G.652 SMF with FEC
- Duplex LC receptacles
- Built-in digital diagnostic functions
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage
- RoHS 6 compliant(lead free)

Applications

- IEEE 802.3ba 100GBASE ER4 Links
- Client-side 100G interconnections
- OTN OTU4

100G QSFP28 LR4 RX Only

(100G Ethernet & OTU4, Deep Packet Inspection Market)

Features

- PIN arrays only (without TOSA)
- QSFP28 form factor, compliant QSFP28 MSA
- 4 channels PIN ROSA ,LC receptacles
- Receive wavelength: 1295.56/1300.05/1304.58/1309.14nm
- Data rate up to 28Gbps per channel
- Up to reach 10km for G.652 SMF
- Low power consumption<1.5W
- Built-in digital diagnostic functions
- Hot Pluggable
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant(lead free)

100G CFP LR4 RX Only

Features

- CFP form factor, compliant CFP MSA
- 4 channels PIN ROSA ,LC receptacles
- Receive wavelength: 1295.56/1300.05/1304.58/1309.14nm
- Data rate up to 28Gbps per channel
- Up to reach 10km for G.652 SMF
- Low power consumption<5W
- MDIO real-time digital diagnostic functions
- Hot Pluggable
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant(lead free)

100G CFP ER4 RX Only

Features

- CFP form factor, compliant CFP MSA
- 4 channels SOA+PIN ROSA ,LC receptacles
- Receive wavelength: 1295.56/1300.05/1304.58/1309.14nm(LAN-WDM)
- Data rate up to 28Gbps per channel
- Up to reach 40km for G.652 SMF
- Low power consumption<6W
- MDIO real-time digital diagnostic functions
- Hot Pluggable
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant(lead free)

100G CFP2 LR4 RX Only

Features

- CFP2 form factor, compliant CFP2 MSA
- 4 channels PIN ROSA ,LC receptacles
- Receive wavelength: 1295.56/1300.05/1304.58/1309.14nm
- Data rate up to 28Gbps per channel
- Up to reach 10km for G.652 SMF
- Low power consumption<3W
- MDIO real-time digital diagnostic functions
- Hot Pluggable
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant(lead free)

100G CFP2 ER4 RX Only

Features

- CFP2 form factor, compliant CFP2 MSA
- 4 channels SOA+PIN ROSA ,LC receptacles
- Receive wavelength: 1295.56/1300.05/1304.58/1309.14nm(LAN-WDM)
- Data rate up to 28Gbps per channel
- Up to reach 40km for G.652 SMF
- Low power consumption<4W
- MDIO real-time digital diagnostic functions
- Hot Pluggable
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant(lead free)

Metro Area Network Solution
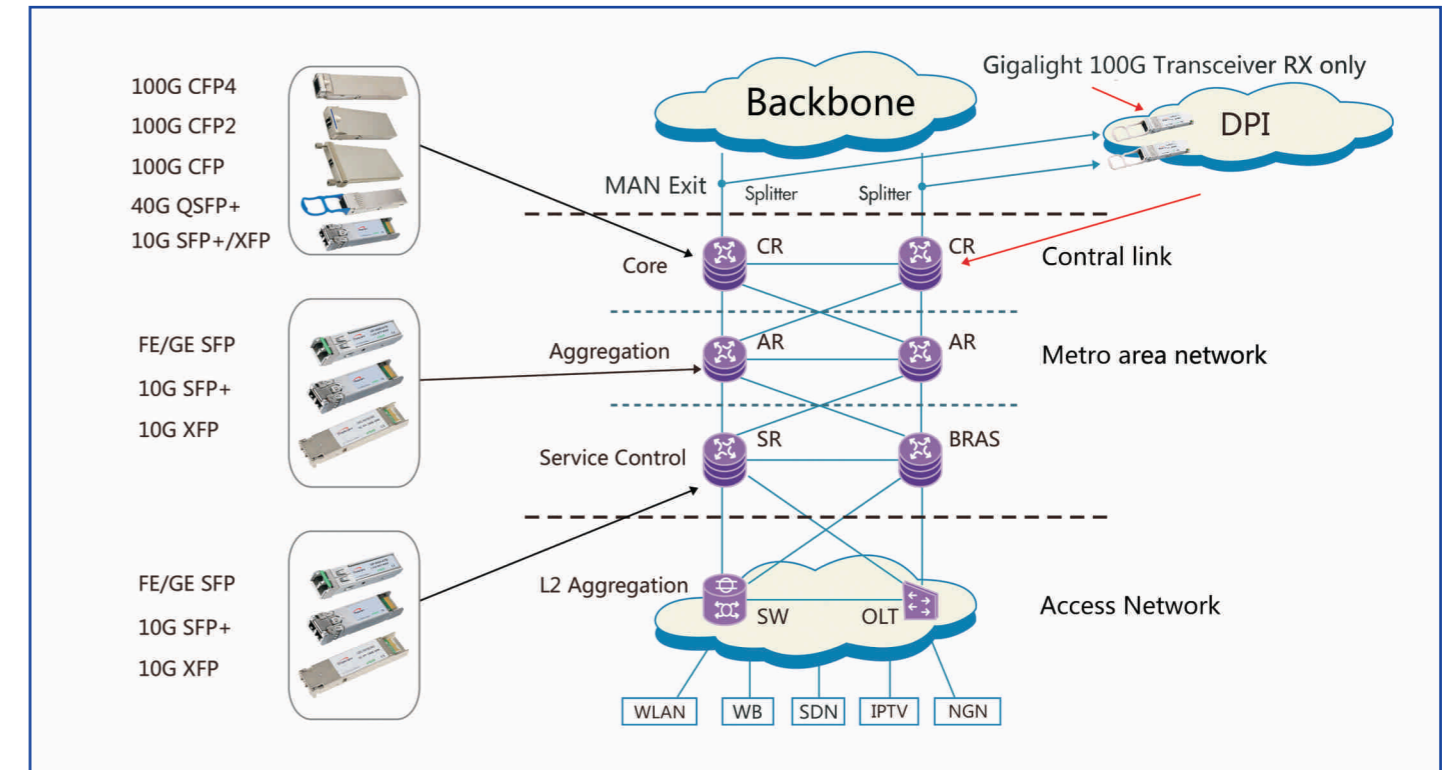
100G CFP SR10

Features

- Compliant to the CFP Hardware Specification Version 1.4
- Compliant to the CFP MSA Management Interface Specification Version 2.2
- Compliant to theIEEE 802.3ba(100GBASE-SR10)
- Transmission data rate up to 11.18 Gbit/s per channel
- Up to 300m on OM3 and 400m on OM4 MMF
- Power class 1 (<8W max)
- OTU4 compatible
- 10 channels 850nm VCSEL array transmitter
- 10 channels PIN photo detector array receiver
- MDIO digital diagnostic interface and control capabilities
- TX input and RX output CDR retiming
- Hot pluggable electrical interface
- Operating case temperature:0°C~ +70°C
- Single 3.3V power supply
- RoHS 6 compliant(lead free)
- Utilizes a standard 24/20 lane optical fiber with MPO connector

Applications

- 100GBE interconnects
- High-speed core router connections&Datacom/Telecom switch
- Data aggregation and backplane applications
- Proprietary protocol and density application

100G CFP LR4

Features

- Operating optical data rate up to 112Gbps
- Transmission distance up to 10km
- CFP MSA compliant
- Compliant to 100GbE IEEE 802.3ba specification for 100GBASE-LR4 links
- OTU4 compatible
- 1310 nm window cooled EA-DFB LD and PIN ROSA
- Built in digital diagnostic function
- 10 parallel electrical serial interface and AC coupling of CML signals
- Hot pluggable electrical interface
- Low power dissipation<9W
- Operating case temperature 0°C to +70°C
- Single 3.3V power supply
- RoHS 6 compliant(lead free)

Applications

- 100GbE IEEE 802.3ba 100GBASE-LR4
- OTN-OTU4
- Switch to switch interface or Switch to router interface

100G CFP ER4   preliminary

Features

- Operating optical data rate up to 112Gbps
- Transmission distance up to 40km
- CFP MSA compliant
- Compliant to 100GbE IEEE 802.3ba specification for 100GBASE-ER4 links
- OTU4 compatible
- 1310 nm window cooled SOA+ PIN ROSA
- Built in digital diagnostic function
- 10 parallel electrical serial interface and AC coupling of CML signals
- Hot pluggable electrical interface
- Low power dissipation < 11W
- Operating temperature range: 0 to 70°C
- Single 3.3V power supply
- RoHS 6 compliant (lead free)

Applications

- 100GbE IEEE 802.3ba 100GBASE-ER4
- OTN-OTU4
- Switch to switch interface or Switch to router interface

100G CFP2 SR10

Features

- Compliant to the CFP2 Hardware Specification Version 1.0
- Compliant to the CFP2 MSA Management Interface Specification Version 2.2
- Compliant to theIEEE 802.3ba(100GBASE-SR10) and OTU4
- Transmission data rate up to 11.18 Gbit/s per channel
- Up to 300m on OM3 and 400m on OM4 MMF
- Power class 1 (<7W max)
- 10 channels 850nm VCSEL array transmitter
- 10 channels PIN photo detector array receiver
- MDIO digital diagnostic interface and control capabilities.
- TX input and RX output CDR retiming
- Hot pluggable electrical interface
- Operating case temperature:0°C~ +70°C
- Single 3.3V power supply
- RoHS 6 compliant(lead free)
- Utilizes a standard 24/20 lane optical fiber with MPO connector

100G CFP2 LR4   (DML & EML)

Features

- CFP2 MSA module form factor
- 10 km reach on single-mode fiber
- Standard interfaces per IEEE 802.3ba
- Dual rate, support 100GE and OTU4
- 4x 25/28G LAN WDM optical architecture (IEEE 802.3ba | ITU-T G.959.1)
- 4x 25/28G retimed electrical I/O (CAUI-4 IEEE 802.3bm | OIF CEI-28G-VSR)
- 28G DFB-based integrated TOSA
- 28G PIN-based Integrated ROSA
- 28G CDR Ics
- Power dissipation: < 9W (EML Version)
                     < 6W (DML Version)
- Operating case temperature range of 0°C to +75°C
- Duplex LC receptacles

Applications

- 100GbE IEEE 802.3ba 100GBASE-LR4
- OTN-OTU4
- Switch to switch interface or Switch to
- Router interface

100G CFP2 ER4 (SOA)

Features

- CFP2 MSA module form factor
- 40 km reach on single-mode fiber
- Standard interfaces per IEEE 802.3ba
- Dual rate, support 100GE and OTU4
- 4x 25/28G LAN WDM optical architecture (IEEE 802.3ba | ITU-T G.959.1)
- 4x 25/28G retimed electrical I/O (CAUI-4 IEEE 802.3bm | OIF CEI-28G-VSR)
- 28G DFB-based integrated TOSA
- 28G PIN-based Integrated ROSA with SOA
- 28G CDR Ics
- Power dissipation: < 9W (EML Version)
- Operating case temperature range of 0°C to +75°C
- Duplex LC receptacles

Applications

- 100GBASE-ER4
- OTN-OTU4
- Switch to switch interface or Switch to
- Router interface

100G CFP2 to QSFP28 Adapter

√ Transmission data rate up to 28Gbps per channel
√ 1 port QSFP28 TX&RX, supports 100G QSFP28 LR4/ER4

<2W

100G CFP4 SR4

Features

- Hot pluggable CFP4 MSA form factor
- Supports 103.1Gb/s to 112.2Gb/s aggregate bit rates
- Compliant to IEEE 802.3bm 100GBASE−SR4
- Power class 2 (<2.5W)
- Up to 70m on OM3 and 100m OM4 MMF transmission
- Up to 28Gb/s data rate per channel
- Operating case temperature: 0°C~70°C
- 4x28G Electrical Serial Interface (CEI−28G−VSR)
- MDIO management interface with digital diagnostic monitoring
- Maximum power consumption 2.5W
- Utilizes a standard 12/8 lane optical fiber with MPO connector
- RoHS 6 compliant(lead free)
- 4×28Gb/s 850mm VCSEL−based transmitter

Applications

- 100GBASE-SR4 Ethernet
- OTN OTU4
- 128G Fiber Channel

100G CFP2 to QSFP28 Adapter

Features

- Compliant to CFP2 Hardware Specification Version 1.0
- Compliant to CFP MSA Management Interface Specification Version 2.4
- 4 channels full-duplex transceiver
- Internal CDR circuits on both receiver and transmitter channels
- Tranmission data rate up to 28Gbps per channel
- OTU4 compatible
- Without FEC (Forward Error Correction)
- 1 port QSFP28TX&RX,supports 100G QSFP28LR4/ER4
- MDIO digital diagnostic interface and control capabilities
- Power class 3(Adapter<2W max)
- Hot pluggable electrical interface
- Operating case temperature:0°C~+70°C
- Single 3.3V power supply
- RoHS 6 compliant(lead free)

Applications

- 100GBE interconnects, IEEE 802.3ba 100GBASE-LR4(Adapter+QSFP28_LR4)
- High-speed core router connections& Datacom/Telecom switch
- Data aggregation and backplane applications
- Proprietary protocol and density application

100G CFP to QSFP28 Adapter

Features

- Compliant to CFP Hardware Specification Version 1.4
- Compliant to CFP MSA Management Interface Specification Version 2.2
- Converts 10 bidirectional 10G lanes to 4 bidirectional 25G lanes
- 1 port QSFP28 TX&RX
- Support 100G IEEE 802.3bj NRZ FEC
- Transmission data rate up to 28Gbps per channel
- OTU4 compatible
- MDIO digital diagnostic interface and control capabilities
- Power class 1 (<4W max)
- Hot pluggable electrical interface
- Single 3.3V power supply
- Operating case temperature: 0°C ~ +70°C
- RoHS 6 compliant (lead free)

Applications

- 100GBE interconnects, IEEE 802.3ba 100GBASE-LR4(Adapter+QSFP28_LR4), IEEE 802.3bm 100GBASE-SR4(Adapter+QSFP28_SR4)
- High-speed core router connections & Datacom/Telecom switch
- Data aggregation and backplane applications
- Proprietary protocol and density application

25G SFP28 SR OTU4

Features

- Hot-pluggable SFP28 form factor
- Supports 28Gbps data rate
- Maximum link length of 70m on OM3 MMF & 100m on OM4 MMF
- 850nm VCSEL laser and PIN photo-detector
- Internal CDR on both Transceiver and Receiver channel
- Duplex LC receptacle
- Single 3.3V power supply
- Power dissipation < 1W
- Digital diagnostics functions are available via the I2C interface
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°C

Applications

- 25GBASE-SR Ethernet

25G SFP28 LR OTU4

Features

- Hot-pluggable SFP28 form factor
- Support up to 28.05Gb/s
- Maximum link length of 10km on SMF
- 1310nm DFB laser and PIN photo-detector
- Internal CDR on both Transmitter and Receiver channel
- Duplex LC receptacle
- Power dissipation <1.5W
- Single 3.3V power supply
- Digital diagnostics functions are available via the I2C interface
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°C

Applications

- Tri-Rate 8.5/14.025/28.05 Gb/s Fiber Channel
- 25G Ethernet
- 32G Fiber Channel

Ethernet

Date Rate	Form Factor	200m	500m	2km	10km	20km	40km	50km	80km	120km
10G	SFP+		★	★	★	★	★		★	
	SFP+ BIDI				★	★	★	★		
	SFP+ DWDM						★		★	
	SFP+ CWDM				★		★		★	
	SFP+ Tunable				★		★		★	
	XFP						★		★	
	XFP BIDI				★	★	★	★		
	XFP DWDM						★		★	★
	XFP CWDM		★				★		★	
	XFP Tunable								★	
1.25G	SFP	★	★			★	★		★	★
	BIDI SFP					★	★		★	★
	CWDM SFP						★		★	★
	DWDM SFP								★	★
	SGMII SFP		★	★						
	Copper SFP	★								
	Compact BIDI SFP					★				

10G-BASE-T Copper SFP+ preliminary

Features

- Supports Links up to 30m using Cat 6a/7 Cable
- SFF-8431 and SFF-8432 MSA Compliant
- IEEE 802.3az Compliant
- Hot-pluggable SFP+ footprint
- TX Disable and RX Losfunction
- Fully metallic enclosure for Low EMI Emissions
- +3.3V single power supply
- Low Power Consumption (2.5W MAX @ 30m)
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- XFI/5GBASE-R/2500BASE-X/SGMII, SGMII Auto-NegotiationOn
- Auto-negotiates with other 10GBase-T PHYs
- Supports 100/1000Base-T using Cat 5e cableor better
- MDI/MDIX Crossover
- Multiple Loopback Modes for Testing andTroubleshooting
- Built-in Cable Monitoring and Link Diagnostic
- Unshielded and Shielded cable support
- Operating case temperature range of 0°C to +70°C

Applications

- 10 Gigabit Ethernet over Cat 6A cable

10G SFP++ (with CDR)

Features

- Compliant with SFF-8431,SFF-8432 & IEEE802.3ae/OC192/STM-64
- Cooled EML transmitter and APD receiver
- Dual CDR with 9.95-11.095Gb/s
- Link length up to 80km
- Low Power Dissipation 1.5W Typical (Maximum:3W)
- -5°C to 70°C Operating Case Temperature
- Single 3.3V power supply
- Diagnostic Performance Monitoring of module temperature, supply Voltages, laser bias current, transmit optical power, receive optical power
- RoHS6 compliant and lead free

10G XFP

Features

- Support 9.95Gb/s to 11.3 Gb/s bit rates
- XFP MSA Compliant
- 3.3V Operating voltage
- Distance 300m/10km/40km/80km/120km
- VCSEL/DFB/EML/CWDM/DWDM optional
- Bi−directional XFP Transceiver available
- Wide Operating Temperate range 0°C−70°C and −40°C−85°C optional
- Diagnostic Optics Monitoring
- RoHS 6 Compliant

Applications

- SONET OC−192/SDH STM 64
- 10G BASE LR/LW, ER/EW,ZR/ZW etc.
- 10G Fiber Channel
- CWDM/DWDM Networks

10G SFP+

Features

- Support 9.95Gb/s to 11.3 Gb/s bit rates
- SFP+ MSA Compliant
- 3.3V operating voltage
- Distance from short links up to 80km
- VCSEL/DFB/EML/CWDM/DWDM optional
- Bi−directional SFP+ Transceiver available
- Wide operating Temperate range 0−70℃ and −40~85℃ optional
- Digital Diagnostic Monitoring
- 10G SFP+SONET (CDR) available
- RoHS 6 Compliant

Applications

- SONET OC−192/SDH STM 64
- 10G BASE LR/LW, ER/EW,ZR/ZW etc.
- 8G/10G Fiber Channel
- CWDM/DWDM Networks

10G Tunable XFP

Features

- XFP MSA Rev 4.5 Compliant
- Support 9.95Gb/s to 11.1Gb/s
- Tunability over full C-band 50GHz ITU-T wavelengths (SFF-8477 Control)
- 80km 50GHZ tunable laser
- Adaptive Receiver Decision Threshold Control for improved OSNR range
- High performance APD photodiode receiver
- Duplex LC fiber connector
- Compliant with XFP Electrical and Mechanical MSA INF-8077
- Digital diagnostics and alarm reporting
- -5°C to 70°C Operating Case Temperature
- Power Dissipation 3.5W Maximum
- ROHS6 Compliant(lead free)

Applications

- 10G Fiber Channel &10G Ethernet
- SONET OC-192&SDH STM64
- Ethernet Switch or IP Router Interconnect
- DWDM Networks

10G Tunable SFP+

Features

- Hot-pluggable SFP+ footprint
- 50GHz DWDM ITU-T Full C-band Tunability
- Support 9.95Gb/s to 11.3Gb/s bit rates
- 80km 50GHz DWDM laser
- 80km APD photodiode receiver
- Single 3.3V power supply
- Power dissipation <1.7W
- -5°C to +70°C
- Duplex LC fiber connectors
- 10GBASE-ZR/ZW
- SDH STM-64ITU-T G.959.1 P1L1-2D2
- Full Digital Optical Monitoring
- Metal enclosure for lower EMI
- Complies with RoHS directive (2002/95/EC)
- Compliant with SFP+ Electrical MSA SFF-8431
- Compliant with SFP+ Mechanical MSA SFF-8432
- Laser Class 1 IEC/CDRH compliant

2.5G CSFP

Features

- Support data rates from 100Mb/s to 2.5Gb/s
- 1310/1490/1550nm DFB laser and PIN photodetector
- 2-channel bi-directional optics in single SFP package
- Compliant with CSFP MSA Option 2 and SFF-8472
- Dual LC receptacles
- Support Digital Diagnostic Monitoring (DDM)
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature: 0 to 70°C or -40 to 85°C

Applications

- SONET/SDH
- Gigabit Ethernet
- Fibre Channel
- Fast Ethernet
- Other optical links

2.5G CWDM SFP

Features

- Data-rate of 2.67Gbps operation
- 8 CWDM DFB wavelengths laser and APD photodetector for 80km transmission
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic Monitoring:
- Internal Calibration or External Calibration
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature:
- Standard : 0 to +70°C

Applications

- Tri Rate 1.0625 / 2.125 / 4.25Gbp/s Fiber Channel
- 1.25 Gb/s 1000 BASE Ethernet

2.5G DWDM SFP

Features

- Wavelength selectable to C-band ITU-T grid wavelengths
- Suitable for use in 100GHz channel spacing DWDM systems
- DWDM SFP MSA Compliant
- Up to 2.67Gb/s data rate
- OC48 Long Reach 120km
- Cold Start up Wavelength Compliance
- Low Power Dissipation <1.3W Maximum
- -5°C to 70°C Operating Case Temperature
- Diagnostic Performance Monitoring of module temperature, supply Voltages, laser bias current, transmit optical power, receive optical power, laser temperature and TEC current
- Extended link budget with APD receiver technology
- RoHS compliant and lead free

Applications

- SFP Transceivers for DWDM SONET/ SDH
- Ethernet IEEE 802.3ae
- Fiber Channel

155M–1.25G SFP

Features

- Data rates up to 155M/622M/1.25G/2.5G
- Compliant with SFP MSA & SFF-8472 with duplex LC receptacle
- 300m/500m/2km/20km/40km/80km/120km reach
- +3.3 V Single power supply
- Internal or external calibration
- Commercial case temperature range: 0°C to 70°C & 40°C to 85°C optional
- RoHS compliant

Applications

- Ethernet IEEE802.3ae
- Fiber Channel
- SONET/SDH

3G SDI SFP Video Optical Transceiver

Features

- HD-SDI SFP Transceiver available
- SD-SDI SFP Transceiver available
- 3G-SDI SFP Transceiver available
- SMPTE 297-2006 Compatible
- Metal enclosure for Lower EMI
- 1550nm DFB laser and PIN photodetector
- Supports ideo pathological patterns for SD-SDI, HD-SDI and 3G-SDI
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic functions available through the I2C interface
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature: Standard: 0 to +70°C Industrial : -40 to +85°C

Applications

- SMPTE 297-2006 Compatible Electrical-to-Optical Interfaces
- HDTV/SDTV Service Interfaces

6G SDI SFP Video Optical Transceiver

Features

- SD/HD/3G/6G SFP Transceiver available
- SMPTE ST-297-2006, ST2081 Compatible
- Metal enclosure for Lower EMI
- 1310nm DFB laser
- Supports video pathological patterns for SD-SDI, HD-SDI, 3G-SDI,6G-SDI
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic functions available through the I2C interface
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature: Standard: 0°C to 70°C
- SMPTE ST-297-2006, ST2081 Compatible Electrical-to-Optical Interfaces
- UHDTV/HDTV/SDTV Service Interfaces

Applications

- SMPTE ST-297-2006, ST2081 and ST-2082 Compatible Electrical-to-Optical Interfaces
- UHDTV/HDTV/SDTV Service Interfaces

12G SDI Video SFP Optical Transceiver

preliminary

Features

- SD/HD/3G/6G/12G-SDI SFP Transceiver available
- SMPTE ST-297-2006, ST2081 and ST-2082 Compatible
- Metal enclosure for Lower EMI
- 1310nm DFB laser
- Supports video pathological patterns for SD-SDI, HD-SDI, 3G-SDI,6G-SDI and 12G SDI
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic functions available through the I2C interface
- Compatible with RoHS
- +3.3V single power supply
- Operating case temperature: Standard: 0°C to 70°C

Applications

- SMPTE ST-297-2006, ST2081 and ST-2082 Compatible Electrical-to-Optical Interfaces
- UHDTV/HDTV/SDTV Service Interfaces

Mini HDMI Optical Transceiver

Features

- Compliant with HDMI 1.4 Version, 4K/3D/1080p HD signal transfer without compression
- 10Gb/s Data rate
- Support HDCP/EDID/DDC/Audio
- Plug and play
- HDMI A-type interface, CEC(consumer electronics control)not supported
- Power/Working condition indicated by LED light
- Transmission distance up to 300m on SMF or MMF, with HDCP requirement
- 850nm VCSEL transmitter, PIN photo-detector
- Duplex LC connector
- Lower power consumption
- Compat size 67*23*10.3mm

Applications

- Transport HDMI signal over optical fiber, the HDMI source can be Blue-ray DVD, HDMI Encoder and so on. The Receiver can be HDTV/SDTV/4K.
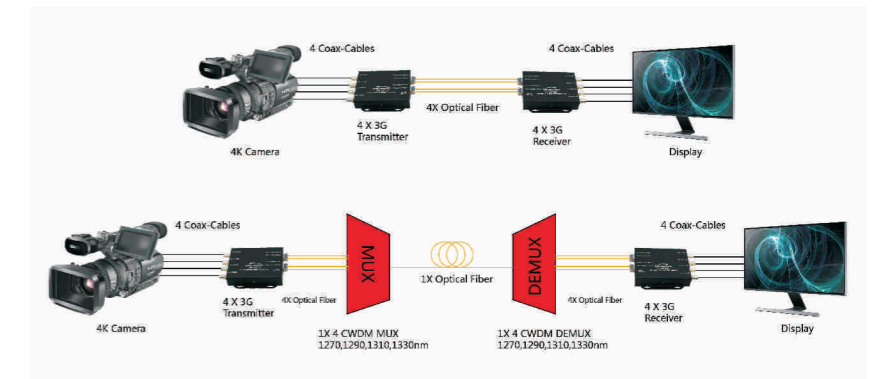
4x 3G-SDI Optical Extenders

Features

- Extend SDI signal up to 2km~80km over fiber optics
- Data rate per lane up to 3G, total 12G for 4K
- Compliant with SMPTE-424M/292M/295M/297M/305M/310M and DVB-ASI
- Plug and play, no software to be installed
- Longer, thinner cable without EMI/RFI emissions
- Operating case temperature: 0°C to 60°C
- All-metal housing for superior EMI performance
- RoHS compliant (lead free)

Applications

- Live Broadcast
- 4K Screen
- 4K Camera
- Video Meeting
- Security Monitoring

12G-SDI Video Optical Transceiver Extenders

Features

- SD,HD,3G,6G,12G input datarate detected Automatically, 125M/270M/ 1.48G/3G/6G/12G datarate selected both automatically and manually
- Rreachable distance: 80km(@3G SDI SFP transceiver), 20km(@12G SDI SFP transceiver), 700m(@6G SDI SFP transceiver)
- Supported format : SMPTE ST 2082-1 (11.88Gbps/s), SMPTE ST 2081-1 (5.94Gbps/s),SMPTE ST 424 (2.97Gbps/s), SMPTE ST 292 (1.485Gbps/s),SMPTE ST 259(360Mb/s), DVB-ASI(270Mb/s),MADI (125Mb/s)
- Co-axis cable equalizer embedded in the transmitter:
  70m at 11.88Gb/s: <0.2UI output jitter
  90m at 5.94Gb/s: <0.15UI output jitter
  180m at 2.97Gb/s: <0.1UI output jitter
  240m at 1.485Gb/s: <0.1UI output jitter
  300m at 270Mb/s: <0.1UI output jitter
- CDR embedded in the receiver
- SDI signal connecting status indicated by LED
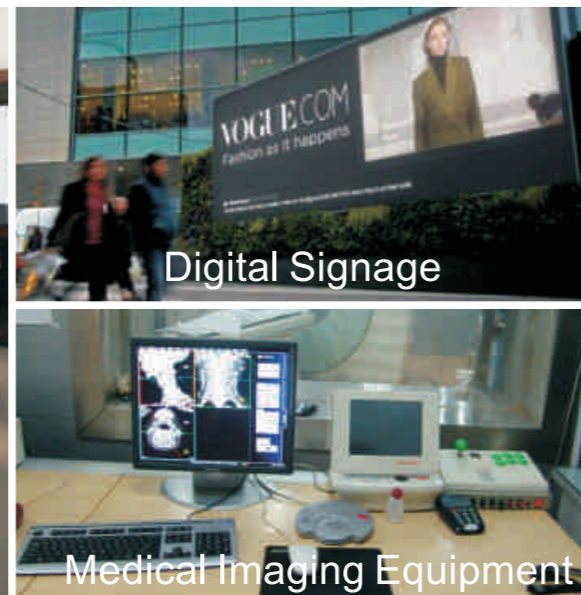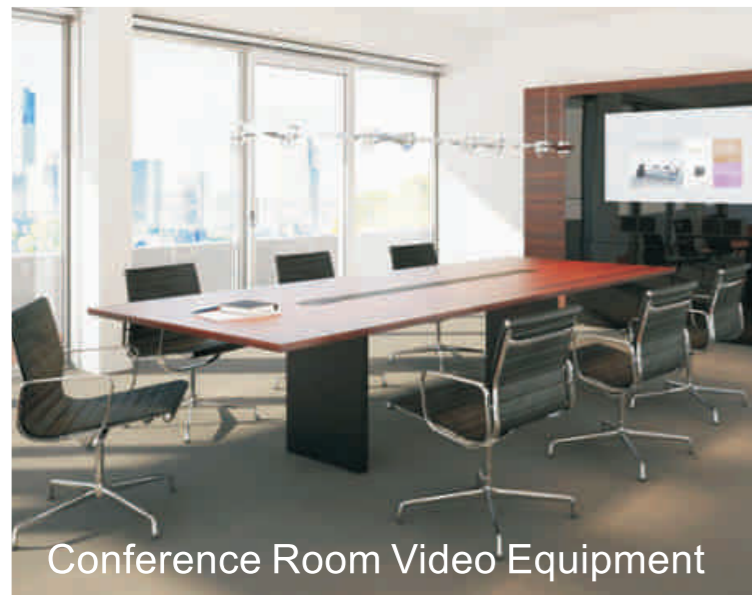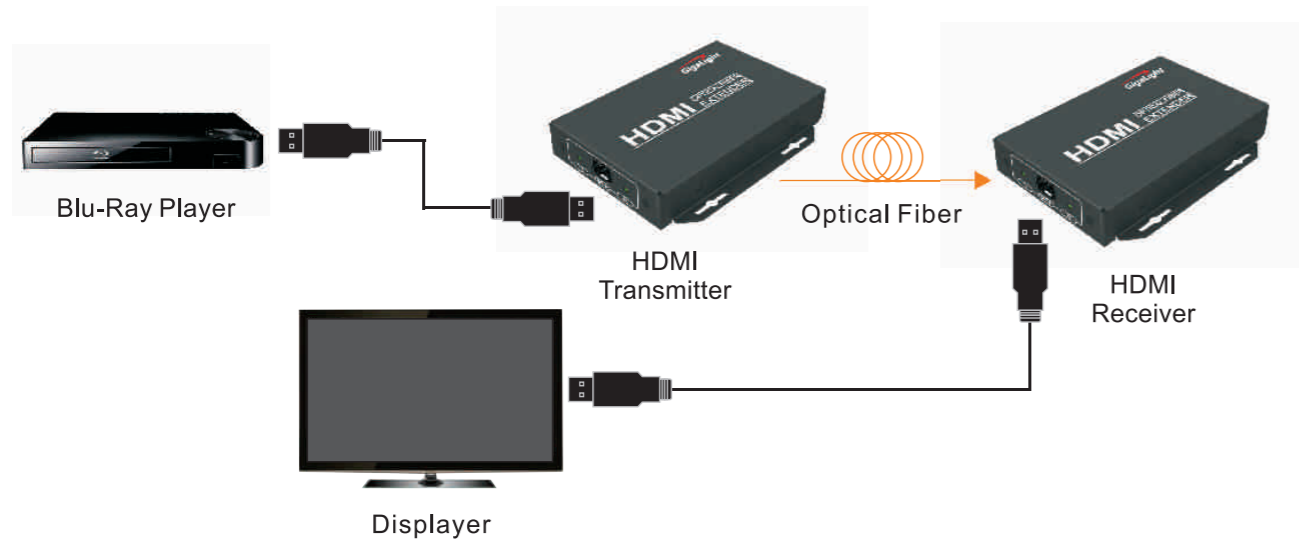- 5~12V DC power supply
- Friendly simple GUI

HDMI 1.4 Mini Optical Extenders

Features

- Compliant with HDMI 1.4 Version, 4K/3D/1080p HD signal transfer without compression
- No compression; 10Gb/s Data rate
- Support HDCP/EDID/DDC/Audio
- Plug and play; Dispense with software
- HDMI A-type interface,CEC(consumer electronics control)not supported
- Power/Working condition indicated by LED light
- Transmission distance up to 300m on SMF or MMF, with HDCP requirement
- Transmission distance up to 40KM on SMF(Single fiber or Dual fiber, with HDCP shunt/decoding box

Applications

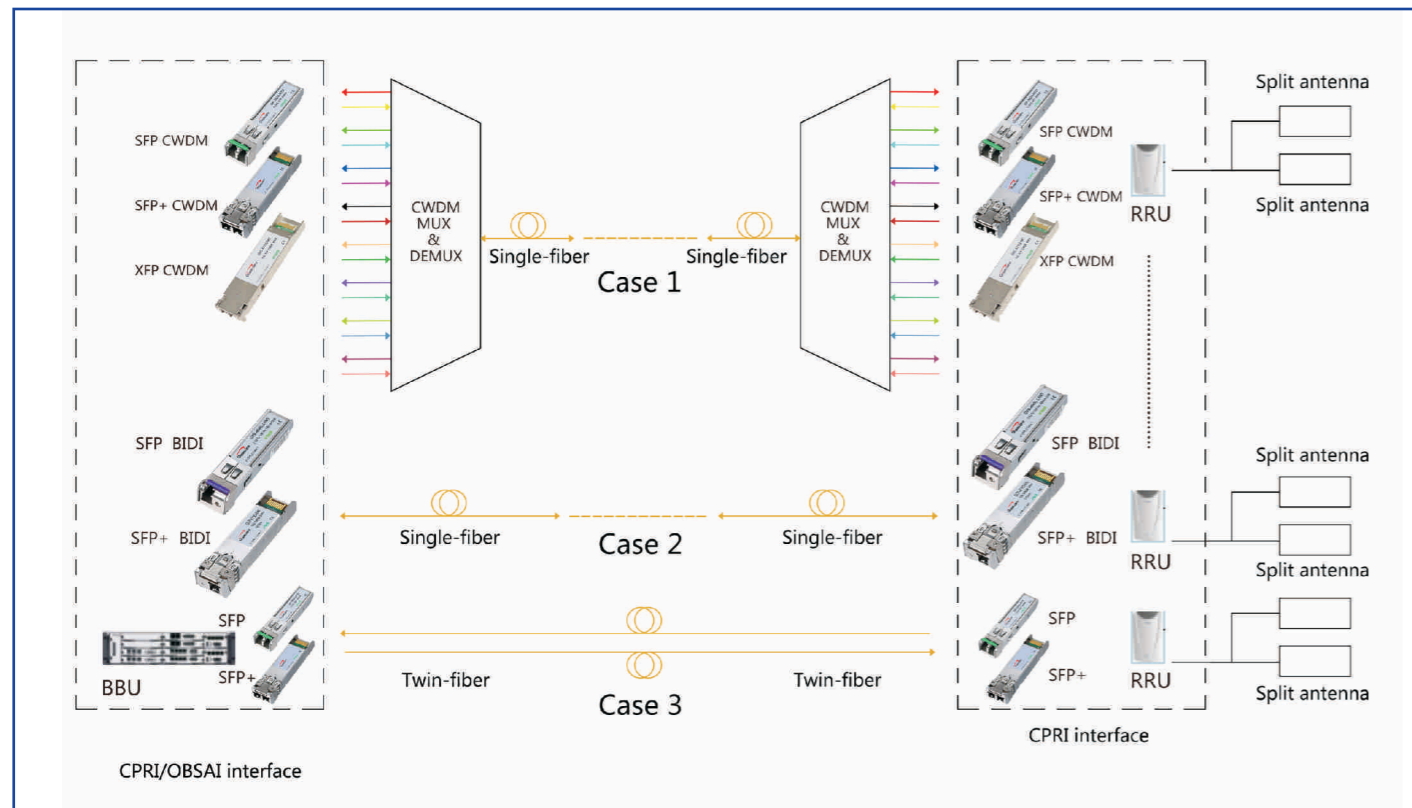Blu-Ray Player

HDMI Transmitter

Optical Fiber

HDMI Receiver

Displayer

Digital Signage

Conference Room Video Equipment

Medical Imaging Equipment

XG VSFP

Product Series	Part Number	Data rate (Gb/s)	Wavelength (nm)	Connector	Reach	Case Temperature (℃)
3G-SDI Video SFP TX and RX	GHP-313G-02CD	3Gbps	1310	LC	2km	0~70
	GHP-313G-L2CD	3Gbps	1310	LC	20km	0~70
	GHP-313G-L4CD	3Gbps	1310	LC	40km	0~70
	GHP-553G-L4CD	3Gbps	1550	LC	40km	0~70
	GHPC-XX3G-L4CD	3Gbps	CWDM	LC	40km	0~70
	GHP-313G-L8CD	3Gbps	1310	LC	80km	0~70
	GHP-553G-L8CD	3Gbps	1550	LC	80km	0~70
3G-SDI Video SFP TX	GHT-313G-02CD	3Gbps	1310	LC	2km	0~70
	GHT-313G-L2CD	3Gbps	1310	LC	20km	0~70
	GHT-313G-L4CD	3Gbps	1310	LC	40km	0~70
	GHT-553G-L4CD	3Gbps	1550	LC	40km	0~70
	GHTC-XX3G-L4CD	3Gbps	CWDM	LC	40km	0~70
3G-SDI Video SFP Dual TX	GTT-313G-02CD	3Gbps	1310	LC	2km	0~70
	GTT-313G-L2CD	3Gbps	1310	LC	20km	0~70
	GTT-313G-L4CD	3Gbps	1310	LC	40km	0~70
	GTT-553G-L4CD	3Gbps	1550	LC	40km	0~70
	GTTC-XXXX3G-L4CD	3Gbps	CWDM	LC	40km	0~70
3G-SDI Video SFP RX	GHR-XX3G-XXXD	3Gbps	N/A	LC	2km/20km/40km	0~70
3G-SDI Video SFP Dual RX	GRR-XX3G-XXXD	3Gbps	N/A	LC	2km/20km/40km	0~70
3G-SDI Video SFP Bidi	GHB-353G-L2CD	3Gbps	1310/1550	LC	20km	0~70
	GHB-533G-L2CD	3Gbps	1550/1310	LC	20km	0~70
	GHB-353G-L2CD	3Gbps	1310/1550	LC	20km	0~70
	GHB-533G-L2CD	3Gbps	1550/1310	LC	20km	0~70
6G-SDI Video SFP TX and RX	GHP-316G-02CD	6Gbps	1310	LC	2KM	0~70
6G-SDI Video SFP TX and RX	GHP-316G-L2CD	6Gbps	1310	LC	20KM	0~70
6G-SDI Video SFP TX and RX	GHP-316G-L4CD	6Gbps	1310	LC	40KM	0~70
6G-SDI Video SFP Dual TX	GTT-316G-02CD	6Gbps	1310	LC	2KM	0~70
6G-SDI Video SFP Dual TX	GTT-316G-L2CD	6Gbps	1310	LC	20KM	0~70
6G-SDI Video SFP Dual TX	GTT-316G-L4CD	6Gbps	1310	LC	40KM	0~70
6G-SDI Video SFP Dual RX	GRR-XX6G-XXCD	6Gbps	N/A	LC	2KM/20KM/40KM	0~70
12G-SDI Video SFP TX and RX	GHP-3112G-02CD	12Gbps	1310	LC	2KM	0~70
12G-SDI Video SFP TX and RX	GHP-3112G-L2CD	12Gbps	1310	LC	20KM	0~70
12G-SDI Video SFP Dual TX	GTT-3112G-02CD	12Gbps	1310	LC	2KM	0~70
12G-SDI Video SFP Dual TX	GTT-3112G-L2CD	12Gbps	1310	LC	20KM	0~70
12G-SDI Video SFP Dual RX	GRR-XX12G-XXCD	12Gbps	N/A	LC	2KM/20KM	0~70
MINI HDMI 1.4	N/A	10Gbps	850	LC	200M	0~70

XG SDI/HDMI Extender

Product Series	Part Number	Data rate (Gb/s)	Wavelength (nm)	Connector	Reach	Case Temperature (℃)
4× 3G-SDI Optical Extender	G-SDI-E-4*3G-Tx/Rx	3Gbps	TBD	SFP slot	TBD	0~70
12G-SDI Optical Extender (2channel T&R)	G-SDI-E-1*12G-TR	12Gbps	TBD	SFP slot	TBD	0~70
HDMI1.4 Optical Fiber Extender (For pair)	G-HDMI-E-Tx/Rx	10Gbps	TBD	SFP slot	TBD	0~70
mini HDMI1.4 Optical Fiber Extender (For pair)	TBD	10Gbps	TBD	LC	300m	0~70

Wireless & 5G Solutions

25G SFP28 LR/Lite

Features

- Hot-pluggable SFP28 form factor
- Support 25Gbps data rate
- Maximum link length of 10km on SMF
- 1310nm DFB laser and PIN photo-detector
- Internal CDR on both Transmitter and Receiver channel
- Duplex LC receptacle
- Power dissipation <1.5W
- Single 3.3V power supply
- Digital diagnostics functions are available via the I2C interface
- RoHS-6 compliant
- Commercial case temperature range: 0°C to 70°C

Applications

- 25GBASE-LR Ethernet

10G CPRI SFP+

Features

- Operating data rate up to 10.3Gb/s data rates
- Simplex LC Connector Bi-Directional SFP+ Optical Transceiver
- Single 3.3V Supply
- Up to 60km on 9/125um SMF
- A:1270nm DFB Laser transmitter,1330nm APD receiver
- B:1330nm DFB Laser transmitter,1270nm APD receiver
- Compliant with IEEE 802.3ae 10GBASE-E6R and 10GBASE-E6W
- SFP+ MSA SFF-8431 Compliant
- Digital Diagnostic SFF-8472 Compliant
- RoHS compliant and Lead Free
- Operating case temperature:
- Commercial: 0°C ~70 °C

6G/10G CPRI BiDi SFP+ 60km (Industrial)

Features

- Operating data rate up to 10.3125Gb/s
- Simplex LC connector
- Single 3.3V supply
- SFP+ MSA SFF-8431 compliant
- Digital diagnostic SFF-8472 compliant
- RoHS compliant and lead free
- Operating temperature range: -40 to 85°C

Applications

- 10GBASE-LR at 10.3125Gbps
- 10GBASE-LW at 9.953Gbps
- 8G Fibre Channel
- 6.1440/9.8304/10.1376Gbps CPRI data rate

3G/5G CPRI BiDi SFP (Industrial)

Features

- Supports 2.4576/3.0720/4.9152Gbps data rates
- Simplex LC connector
- Single 3.3V supply
- Gigabit Ethernet compatible
- SFP MSA SFF-8074i compliant
- Digital diagnostic SFF-8472 compliant
- RoHS compliant and lead free
- Operating temperature range: -40 to 85°C

Applications

- Multi-rate 2.4576/3.0720/4.9142Gbps