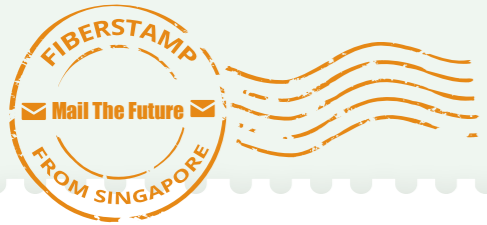




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OPEN DCI DWDM SOLUTIONS

Smart management | Plug and play | Economy



NON-COHERENT DWDM EQUIPMENT & COLOR SERIES OPTICAL MODULES



DCI BOX & COHERENT OPTICAL MODULES



OPTICAL LAYER SYSTEMS



SOLUTION CASES



NON-COHERENT DWDM EQUIPMENT & COLOR SERIES OPTICAL MODULES

Non-Coherent DWDM Equipment

1U DWDM BOX 1.0

FIBERSTAMP offers an all-in-one solution, including proprietary intelligent 1U optical layer equipment featuring DWDM EDFA, AAWG, adjustable TDM or fixed DCM, SOA amplification, providing customers with a comprehensive non-coherent DWDM transmission solution for rapid business deployment.



Features

- 1U rack adopts modular design.
- Supports 800G incoherent high-bandwidth DWDM transmission.
- Supports NMS network card and network management.
- Redundant modular dual-power design and modular fan.
- NMS network card supports LCD screen display, facilitating users to view IP addresses and key monitoring parameters at a glance.

PRODUCT >>



Product Items	1G&10G OEO	25G OEO	100G OEO	100G Muxponder
Full-rate access	155Mbps~11.3Gbps	25.5~28.1Gbps	103.1~112Gbps	25.5~28.1Gbps
Full-service access	Ethernet, P/SDH, ATM, etc.	Ethernet, FC, etc.	Ethernet	Ethernet, FC, etc.
Single card channels	4 bidirectional or 8 unidirectional	4 bidirectional or 4 unidirectional	2 bidirectional	4 bidirectional/4 unidirectional
Supports 3R function	Yes	Yes	Yes	Yes
Features	Plug-and-play design, High integration, Space-saving, Easy for expansion			
Application	Optical comms field	25G/100G Optical Comms Data and Transmission Field	100G Optical Comms Data and Transmission Field	100G long-range or 25G multiplexed optical signals

COLOR ZR+ Optical Transceiver

FIBERSTAMP 100G QSFP28 PSM DWDM4 is a four-channel, pluggable, parallel optical transceiver, suitable for 100G or 40G Ethernet metro access in DWDM applications. This optical transceiver is a high-end optical transceiver for data communication and interconnection applications. Performance transceiver. It integrates four data lanes in each direction with a bandwidth of 104Gbps. Each channel can operate at 26Gbps on G.652 single-mode fiber, with a transmission distance of up to 10km. It uses equipment such as external multiplexers/demultiplexers to transmit longer distances.



100G QSFP28 PSM DWDM4

Features

- O-Band and C-Band optional
- 4-channel full-duplex transceiver
- Transmission data rate up to 26Gbps per channel
- Compliant with ITU-T 694.1
- 4-channel PIN photodetector array
- Internal CDR circuitry on receiver and transmitter channels
- Support CDR bypass
- Low power consumption<5W
- Hot Pluggable QSFP form factor
- Single male MPO(APC 8-degree) connector receptacle
- Working shell temperature 0°C to +70°C
- 3.3V supply voltage
- RoHS compliant (lead-free)

O Band Version

- Supports total bandwidth 400G, 4 types of P/N
- SOA single span 40km transmission without CDM compensation, system FEC is on
- The dual-span SOA meets 80km, no CDM compensation is required, and the system FEC is turned on.

Product Code	TX1		TX2		TX3		TX4	
	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)
FEG-10001K40C	01	233.6	02	233.45	03	233.3	04	233.15
FEG-10005K40C	05	233	06	232.85	07	232.7	08	232.55
FEG-100010K40C	10	232.25	11	232.1	12	231.95	13	231.8
FEG-100014K40C	14	231.65	15	231.5	16	231.35	17	231.2

C Band Version

- 4-channel C-band EML DWDM
- Transmission distance up to 10km via G.652 SMF without external CD compensation
- Using external multiplexer/demultiplexer, EDFA, CD compensation, the transmission distance can reach 120km through G.652 SMF

P/N	TX1		TX2		TX3		TX4	
	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)	Ch. No.	Frequency (THz)
FEG-100D13K80C	C13	191.3	C14	191.4	C15	191.5	C16	191.6
FEG-100D17K80C	C17	191.7	C18	191.8	C19	191.9	C20	192
FEG-100D21K80C	C21	192.1	C22	192.2	C23	192.3	C24	192.4
FEG-100D25K80C	C25	192.5	C26	192.6	C27	192.7	C28	192.8
FEG-100D29K80C	C29	192.9	C30	193	C31	193.1	C32	193.2
FEG-100D33K80C	C33	193.3	C34	193.4	C35	193.5	C36	193.6
FEG-100D37K80C	C37	193.7	C38	193.8	C37	193.7	C37	193.7
FEG-100D41K80C	C41	194.1	C42	194.2	C43	194.3	C44	194.4
FEG-100D45K80C	C45	194.5	C46	194.6	C47	194.7	C48	194.8
FEG-100D49K80C	C49	194.9	C50	195	C51	195.1	C52	195.2
FEG-100D53K80C	C53	195.3	C54	195.4	C55	195.5	C56	195.6
FEG-100D57K80C	C57	195.7	C58	195.8	C59	195.9	C60	196

COLOR X Optical Transceivers

FIBERSTAMP COLOR X-ray transceiver adopts PAM4 DWDM1 O-BAND silicon optical platform, which can be used in 5G fronthaul applications. The transmission distance reaches 10km. With an external SOA, it can meet the single-span transmission of 30km.



**100G QSFP28 DWDM1
(Siph 100G PAM4 O-BAND)**

Features

- Adopting 100G PAM4 silicon photonic MZ modulation technology
- The electrical port side uses 4X 25G NRZ with built-in FEC-KP4
- DWDM O-BAND 150GHZ, 16 channels
- Meets 10km transmission
- With the addition of external SOA, it can meet the requirement of single-span transmission of 30km.
- Power consumption is expected to be less than 3.5
- Applied to 5G fronthaul and DCI interconnection

COLOR X Optical Transceiver Wavelength

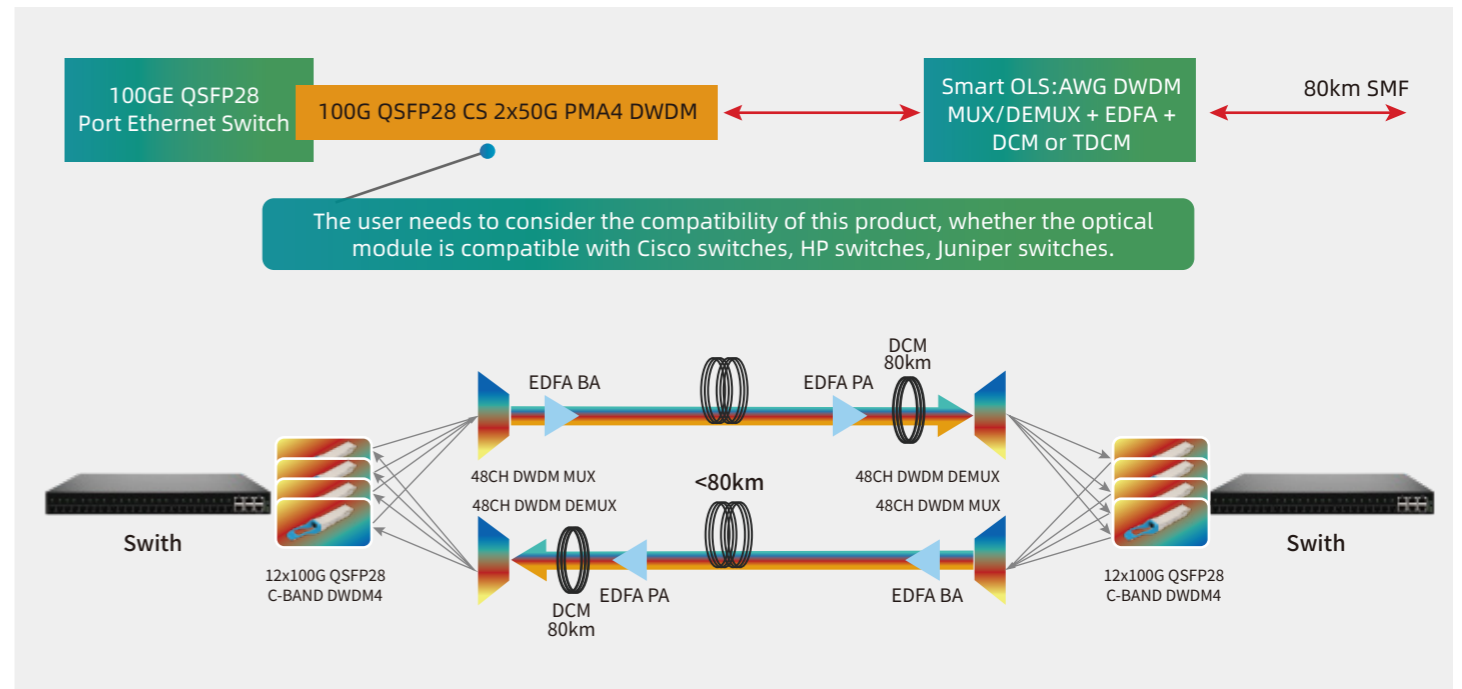
Channel No.	Frequency THz	Wavelength nm	Channel No.	Frequency THz	Wavelength nm
1	233.60	1283.358	9	232.25	1290.818
2	233.45	1284.183	10	232.10	1291.652
3	233.30	1285.008	11	231.95	1292.487
4	233.15	1285.835	12	231.80	1293.324
5	233.00	1286.663	13	231.65	1294.161
6	232.85	1287.492	14	231.50	1295.000
7	232.70	1288.322	15	231.35	1295.839
8	232.55	1289.153	16	231.20	1296.680

Solution Cases

Non-Coherent DWDM Solutions: 2x 50G PAM4 DWDM 80km range

100G QSFP28 CS 2X 50G PAM4 DWDM is directly inserted into the customer's 100GE switch scenario

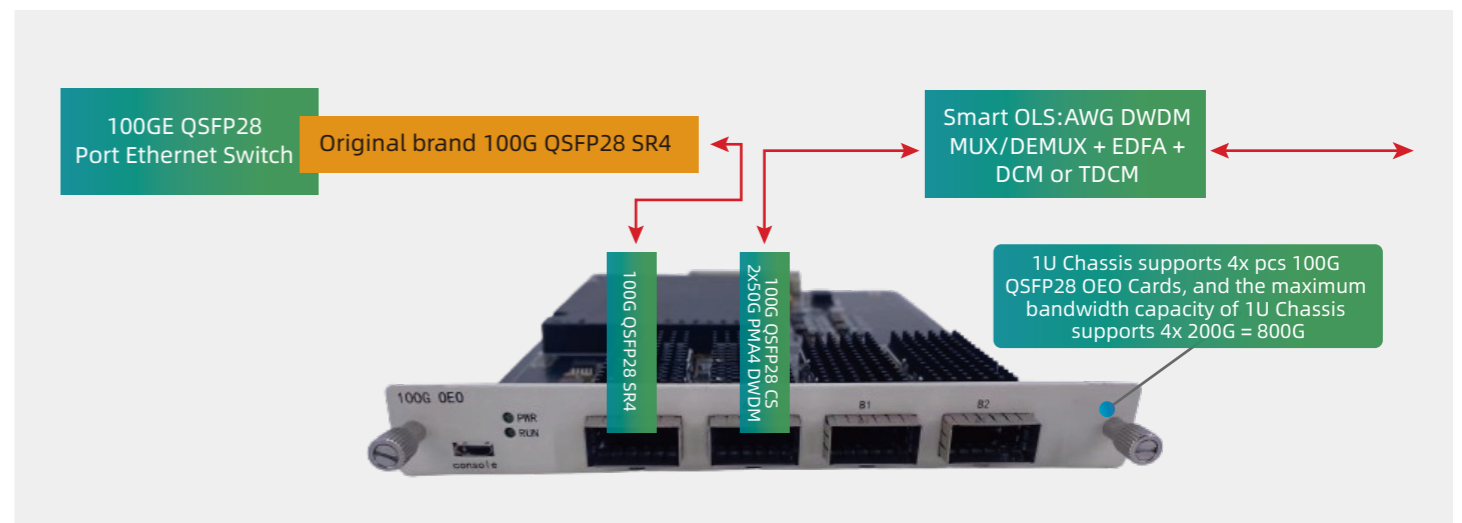
- Total bandwidth capacity 48x 50G = 2400G on dual fiber
- Support single-fiber optical transmission solutions with a total bandwidth capacity of 800G



Non-Coherent DWDM Solutions: 2x 50G PAM4 DWDM 80km range

100G QSFP28 CS 2X 50G PAM4 DWDM is directly inserted into the 100G QSFP28 OEO Card scenario

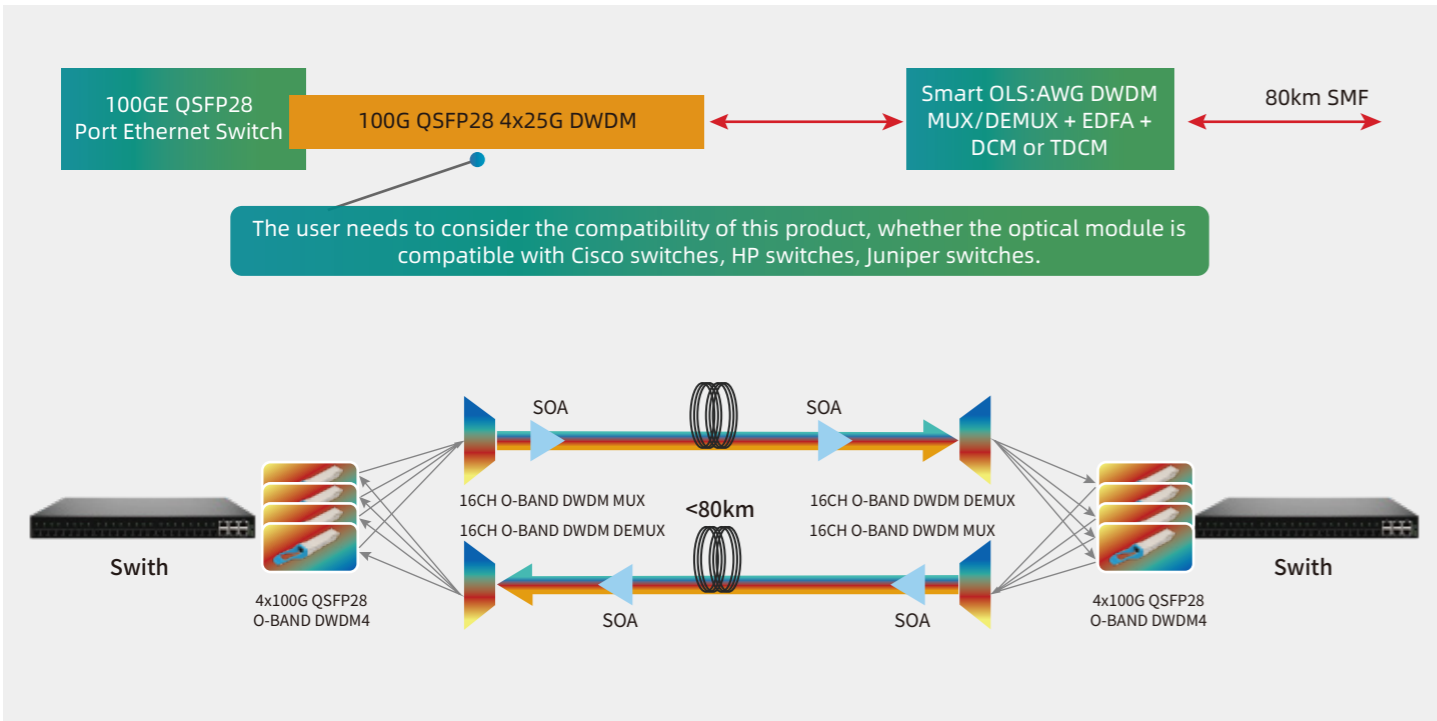
- Total bandwidth capacity 48x 50G = 2400G on dual fiber
- Support single-fiber optical transmission solutions with a total bandwidth capacity of 800G



Non-Coherent DWDM Solutions: 4x 25G DWDM 80km range

100G QSFP28 4x 25G DWDM is directly inserted into the customer's 100GE switch scenario

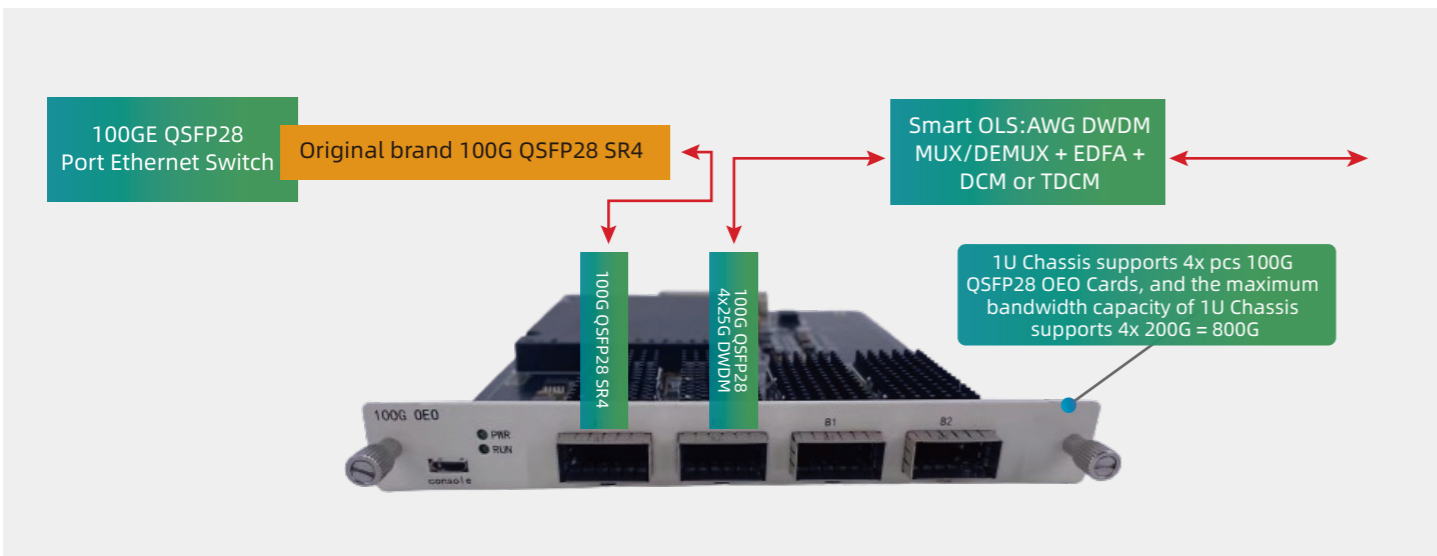
- Total bandwidth capacity 48x 25G = 1200G on dual fiber
- Support single-fiber optical transmission solutions with a total bandwidth capacity of 400G



Non-Coherent DWDM Solutions: 4x 25G DWDM 80km range

100G QSFP28 4x 25G DWDM is directly inserted into the 100G QSFP28 OEO Card scenario

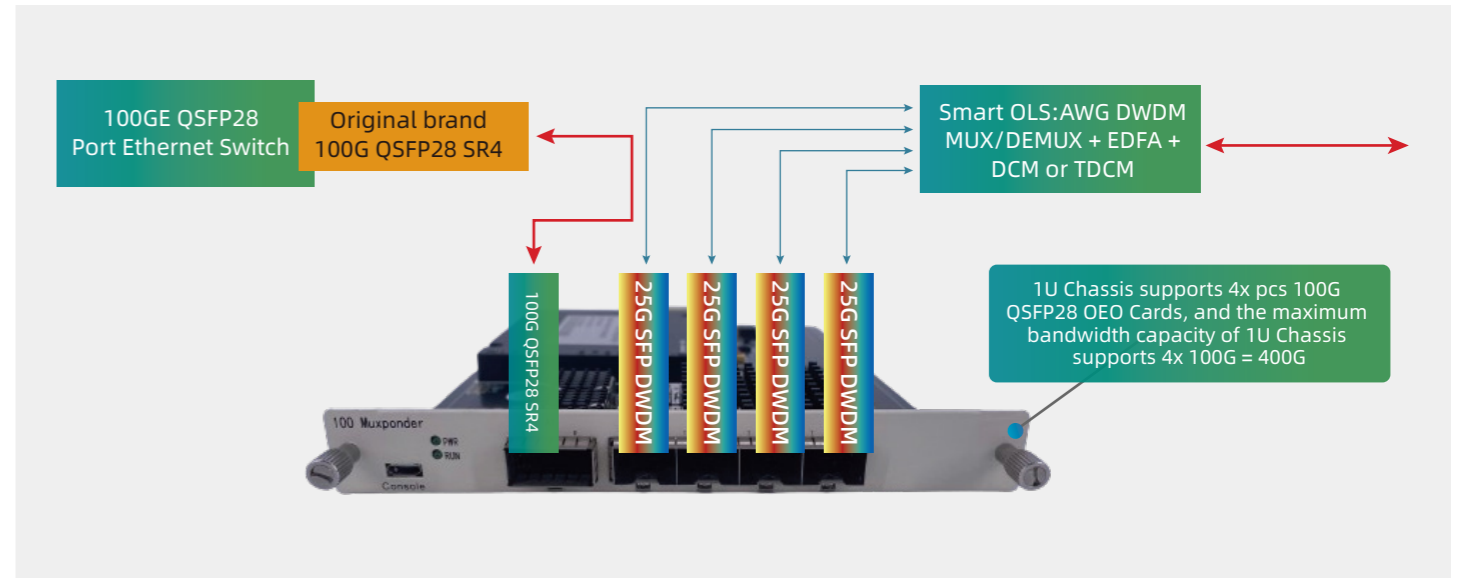
- Total bandwidth capacity 48x 25G = 1200G on dual fiber
- Support single-fiber optical transmission solutions with a total bandwidth capacity of 400G



Non-Coherent DWDM Solutions: 4x 25G DWDM 80km range

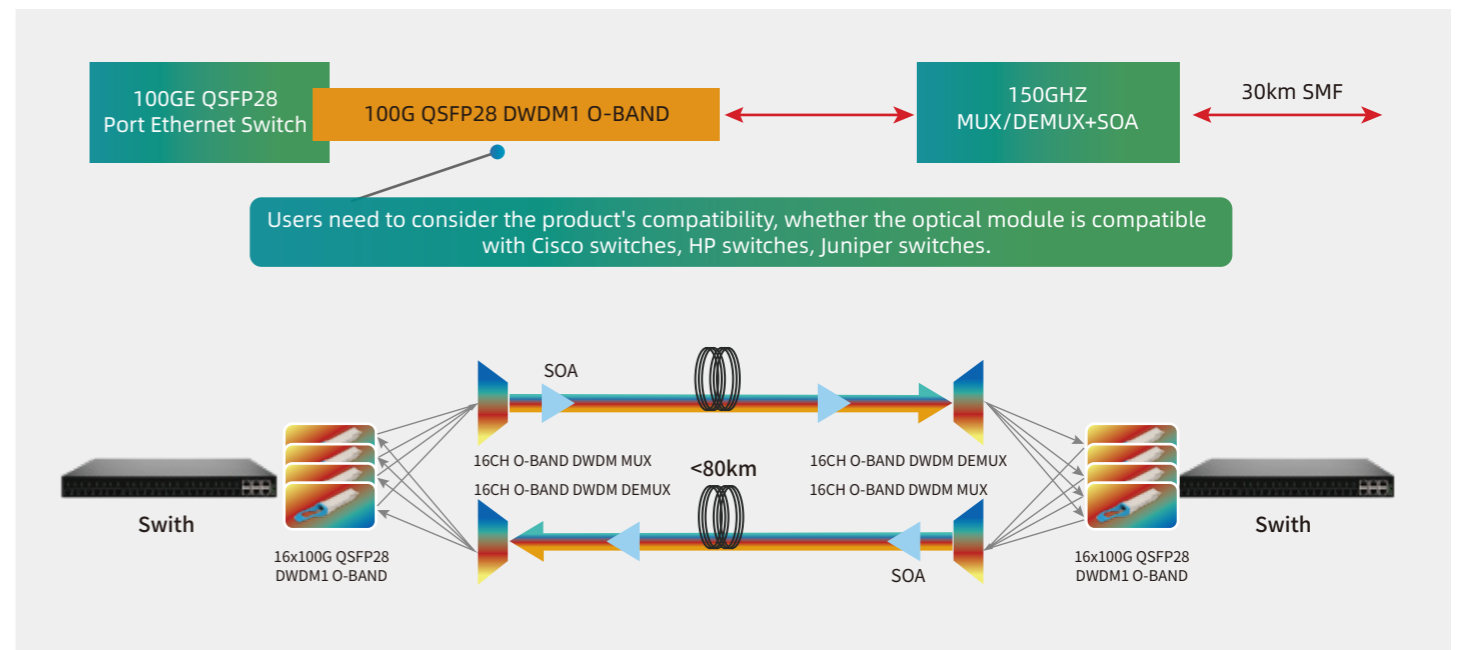
Achieving 100GE transmission over 80KM by using 4x 25G SFP28 to 100G QSFP28 Muxponder

- Total bandwidth capacity 48x 25G = 1200G on dual fiber
- Support single-fiber optical transmission solutions with a total bandwidth capacity of 400G



Non-Coherent DWDM Solutions: 100G PAM4 QSFP28 DWDM1 O-BAND 30KM

- 100G PAM4 silicon optical MZ modulation technology was used
- The electric port side adopts 4x 25G NRZ with built-in FEC-KP4
- DWDM O-BAND 150GHZ, 16 channel
- Direct transmission up to 10KM
- Add external SOA, meet single-span transmission 30KM

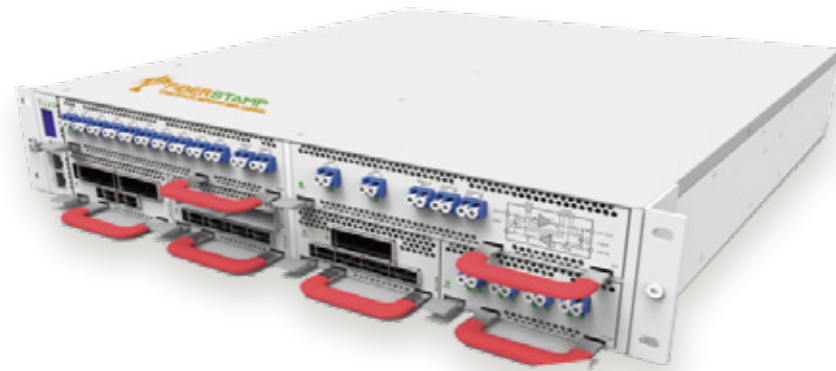


DCI BOX & COHERENT OPTICAL MODULES

DCI BOX

2U 6.4T DCI BOX 2.0

The FIBERSTAMP 2U 6.4T DCI BOX 2.0 is an open coherent DWDM optical transport platform for data center interconnect (DCI) and metro optical transmission applications.



Features

- Unified 2U rack integrated Optical layer and electrical layer boards-access
- ROADM function supported up to 9 dimensions
- Flexible configuration of 100G/200G/400G rates on line-side CFP2/QSFP-DD interfaces
- Supports Web, CLI (telnet and console) and NetRiver managements based on SNMP
- Simple operation and maintenance based on SDN with open APIs to be quickly automated and integrated in any IT operating environment for rapid service deployment

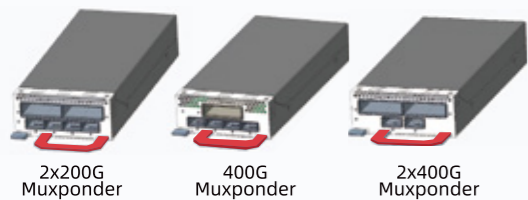
Specifications

Parameters	Specifications
Client-side Rate	400GE/100GE/OTU4 or 10GE/OC-192/STM-64/8GFC/10GFC/16GFC
Line-side Rate	100G/200G/400G
ROADM Dimension	9
Power Consumption	≤300W
Dimensions (W×H×D)	440mm×88mm×420mm
Power Supply	AC (90V to 264V, 50/60Hz), DC (-36V to +60V)

2*200G CFP2 OTU Card for 2U 6.4T DCI BOX (16×400G)

Specifications

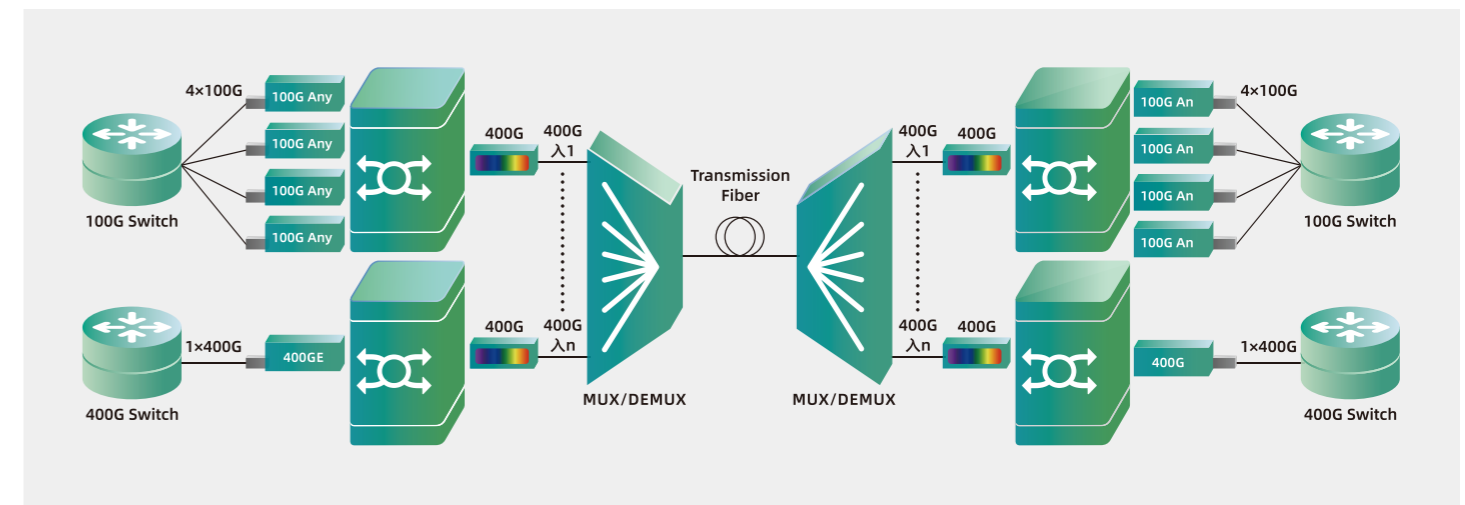
Access Signal Rate	Client-side Interface	Line-side Interface	Power Consumption
103Gbps to 112Gbps	4* 100G QSFP28	2* CFP DCO	≤75W
103Gbps to 112Gbps	4* 100G QSFP-DD	1* 400G CFP2 DCO	≤68W
400GE	2* 400G QSFP-DD	2* 400G CFP2 DCO	≤135W



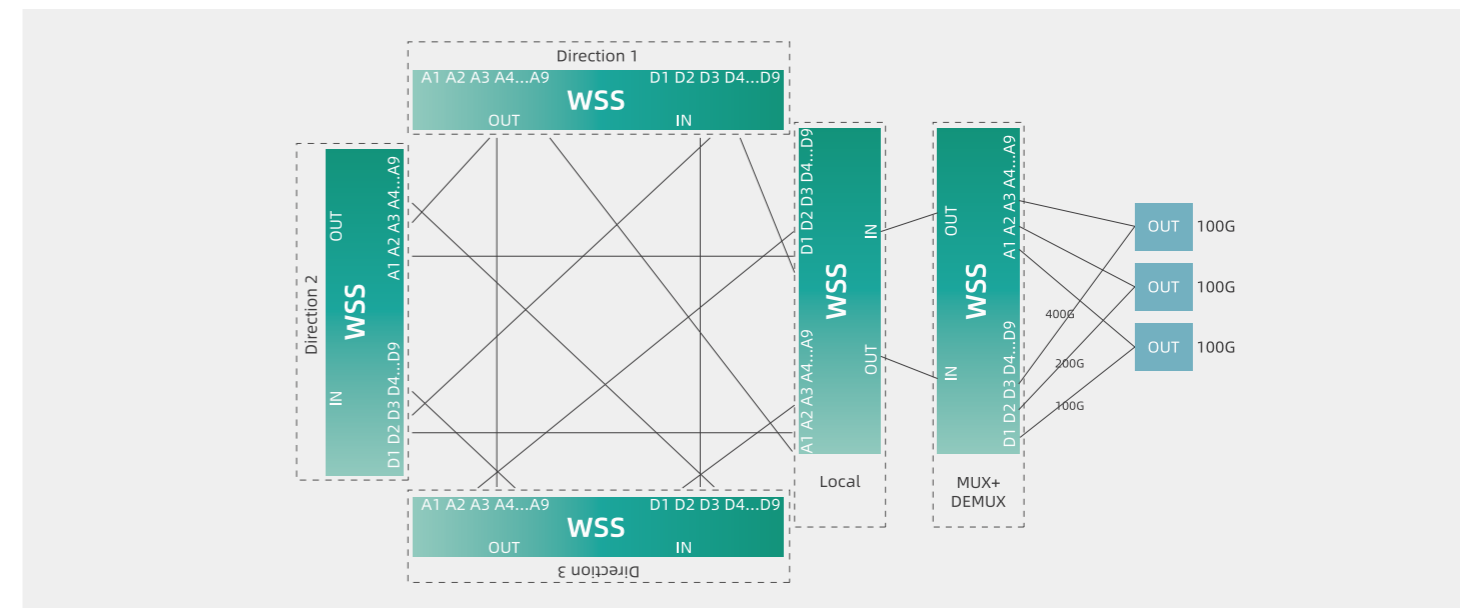
Service Cards



Wavelength Division Transmission



Typical ROADM Site Configuration



1U 800G DCI BOX 1.0

The FIBERSTAMP 1U 800G DCI BOX supports ultra-large capacity service access, ultra-long-distance service transmission, and features simple and convenient operation and maintenance management. It can operate reliably and save energy and reduce emissions, which can effectively meet the data center interconnection (DCI) needs of Internet companies, operators, and cloud service providers etc.



Features

- Fully visible equipment status and board status
- Board parameters can be set through the panel
- Supports in-band or out-of-band network management
- Supports SNMP client

Specifications

Product Features		Description
Environmental requirements	Operating temperature	-10°C~60°C
	Storage temperature	-20°C~75°C
	Relative humidity	5%~95% No condensation
Size(W×H×D)	1U	482.6×44.5×300mm
Power supply	AC	85~264V, 50~60Hz
	DC	36~72V
Power Consumption	1U	< 150W

1U 1.6T DCI BOX

The FIBERSTAMP 1U 1.6T DCI BOX 1.0 supports multi-service and large-capacity transmission networking applications. It is mainly used in the interconnection of data center rooms of operators and Internet companies, and can also be applied for various transmission applications in the convergence layer of the local network/metropolitan area network and the long-distance network of the access layer.



Features

- Single or mixed connection of 100G services on client-side QSFP28 interfaces
- Intelligent B/S architecture for open network
- Supports Web and NetRiver managements based on SNMP
- Simple operation and maintenance based on SDN with open APIs to be quickly automated and integrated in any IT operating environment for rapid service deployment

Specifications

Parameters	Specifications
Client-side Rate	100GE/OTU4
Line-side Rate	100G/200G/400G
Power Consumption	≤350W
Dimensions (W×H×D)	482.6mm×44.5mm×400mm
Power Supply	AC (100V to 240V, 50Hz to 60Hz), DC (36V to 72V)

100G/200G CFP2 OTU Card

The FIBERSTAMP 100G/200G CFP2 OTU Card supports the transparent transmission of two 100G signals, can convert one 100G signal with one 100G DWDM signal or convert the two 100G signals into one 200G DWDM signal.



Features

- Hardware standardization, capable of supporting CFP2 DCO series modules from various mainstream manufacturers
- Single board card can access 1 CFP2 module and 2 100G LR4/SR4 modules etc.
- Supports 100GE to 100G DWDM signals (100G CFP2 DCO)
- Conversion and 2×100GE to 200G DWDM signal (200G CFP2 DCO) conversion
- Supports DWDM: C-band (50GHz&100GHz)
- Supports 3R functionality (Re simplifying, Retiming, Reshaping)
- Supports for WEB/SNMP network management

Specifications

Product Features		Description
Data rate		103~112 Gbps
Port type	Link side	100G CFP2 DCO/200G CFP2 DCO
	Client side	100G LR4/SR4 QSFP28
Modulation		100G DP-QPSK @ 50GHz 200G DP-16QAM @ 50GHz
RX OSNR Tolerance		< 12dB @ 100G DP-QPSK < 20.5dB @ 200G DP-16QAM
Power Consumption		< 35W

2×200G CFP2 OTU Card for 1U 1.6T DCI BOX (8×200G)



Specifications

Parameters	Specifications
Access Signal Rate	103Gbps to 112Gbps
Client-side interface	4×100G QSFP28 SR4/LR4/CWDM4/PSM4
Line-side interface	2×200G CFP2 DCO
Power Consumption	≤75W

400G CFP2 OTU Card for 1U 1.6T DCI BOX (4×400G)



Specifications

Parameters	Specifications
Access Signal Rate	103Gbps to 112Gbps
Client-side interface	4×100G QSFP28 SR4/LR4/CWDM4/PSM4
Line-side interface	1×400G CFP2 DCO
Power Consumption	≤50W

Coherent Optical Modules

PRODUCT >>

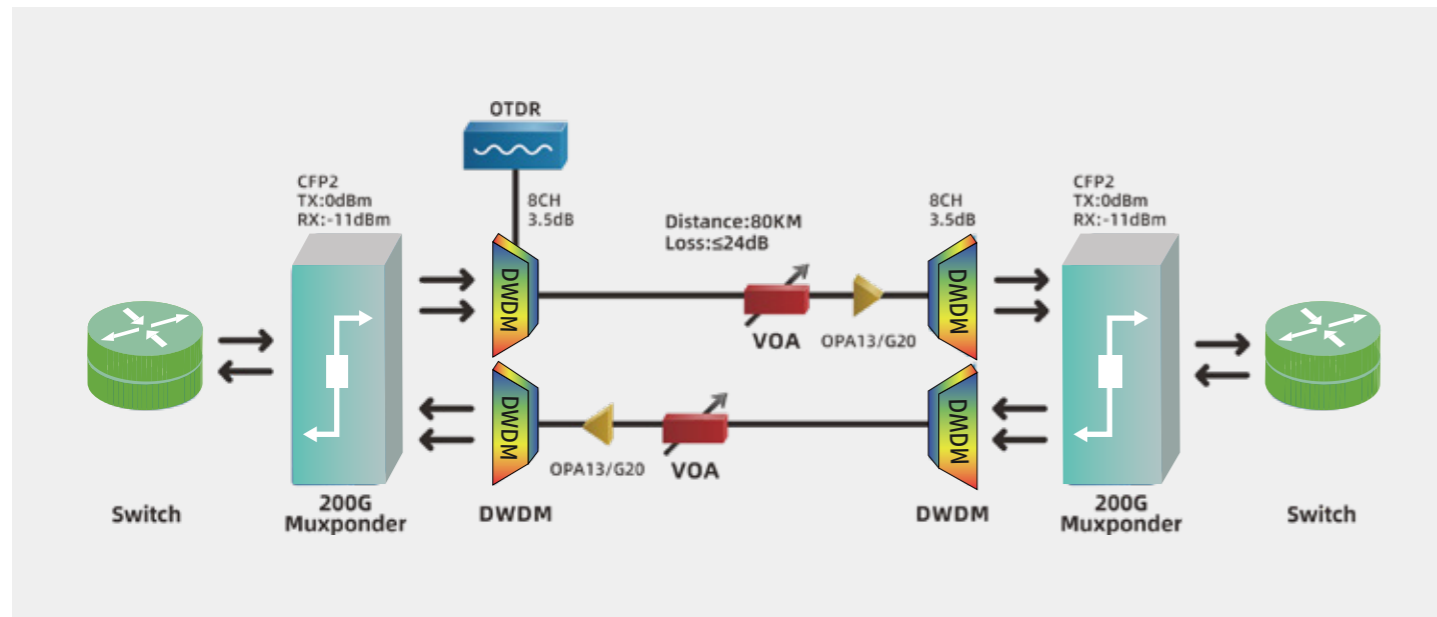


Product Items	100G CFP2 DCO	200G CFP2 DCO	400G CFP2 DCO	400G QSFP-DD DCO ZR/ZR+	100G QSFP28 ZR DCO
Modulation	100G PM-QPSK	200G PM-16QAM	400G PM-16QAM	400G PM-16QAM	100G DP-(d)QPSK
RX OSNR Tolerance	12dB/0.1nm	18.5dB/0.1nm	23dB/0.1nm	26dB/0.1nm	16.5dB SC-FEC 21.5dB GFEC
Reach	2000km	800km	400km	120km/600km	120km/600km
Power Consumption	22W	22W	26W	16.5W	C-Temp: 8W/ I-Temp : 10W

Solution Cases

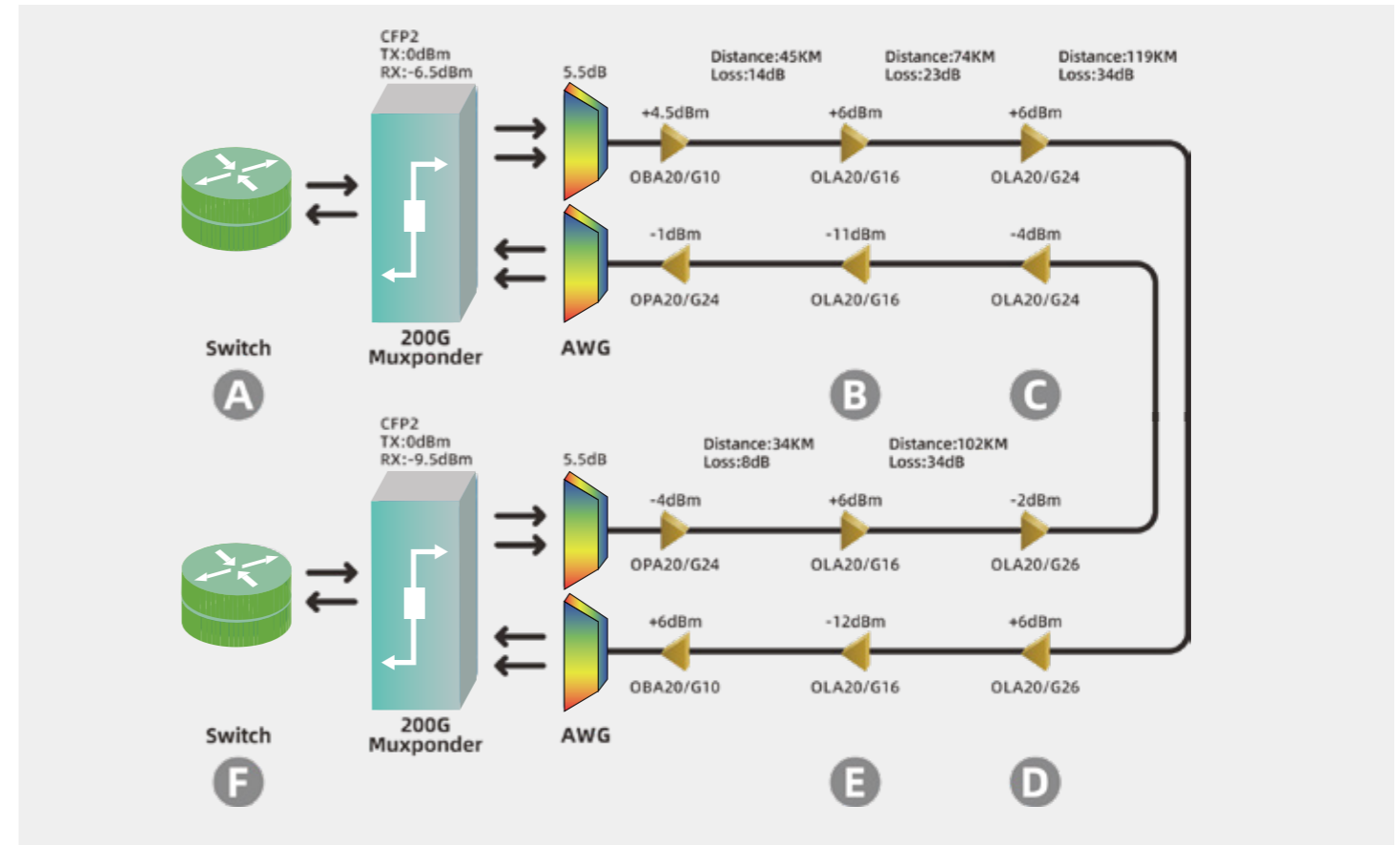
Coherent Single Lambda 200G DWDM 80km

Main description: 1CH×200GE, Optical power margin > 3dB; System configuration VOA can adjust optical insertion loss, EDFA input optical power can be controlled; OTDR system configuration, optical cable performance monitoring.

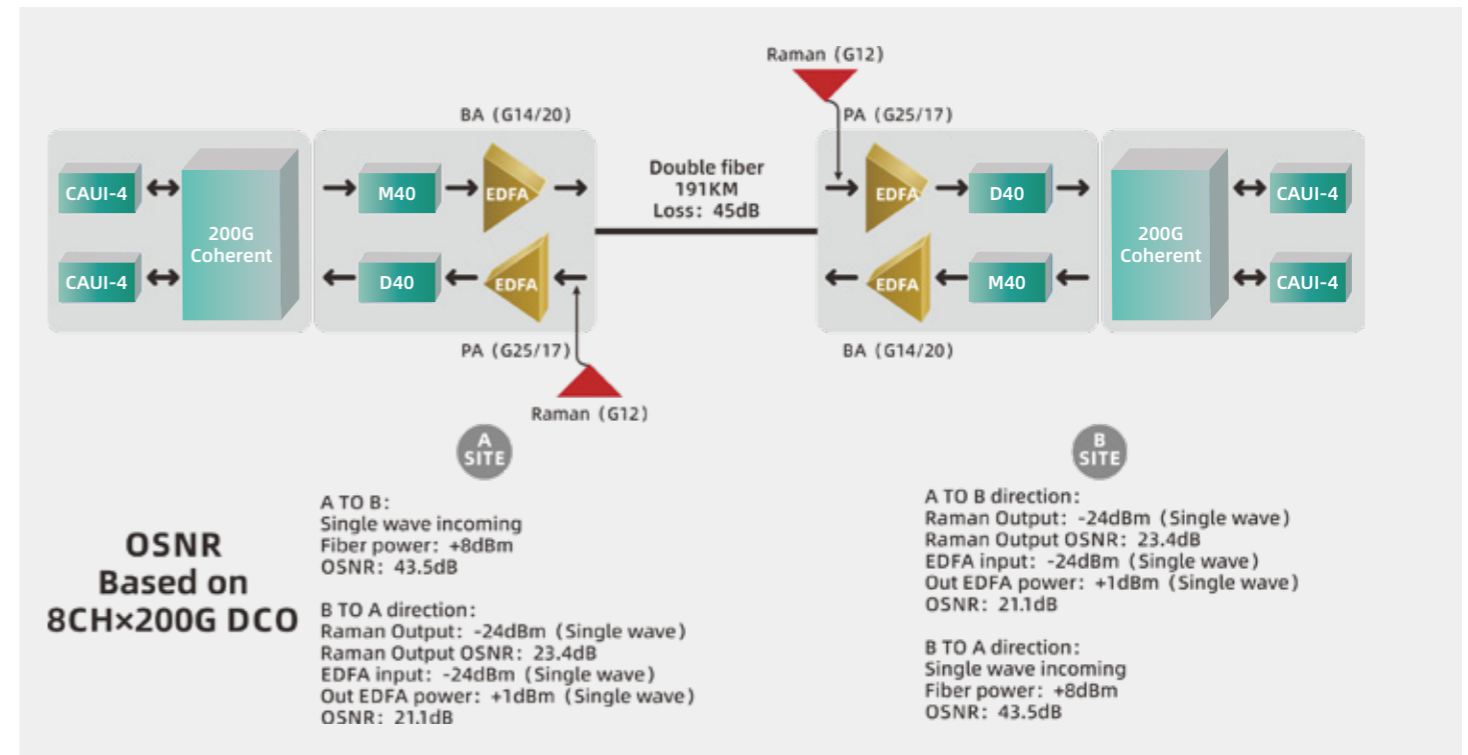


Coherent Single Lambda 200G DWDM 600km (Standard Multi-span)

Main description: 16CH×100GE, RX OSNR margin > 3dB; System configuration VOA can adjust optical insertion loss, EDFA input optical power can be controlled; OTDR system configuration, optical cable performance monitoring.



Coherent Single Lambda 200G DWDM 200km (Ultra-long Single-span)



OPTICAL LAYER SYSTEMS

Optical Transport Platform

FIBERSTAMP's optical transport platform can provide ultra-large capacity transmission of multiple access services. It features high service integration, high port density, rich service types, flexible configuration, etc., and supports the graphical management interface of C/S or B/S architecture based on SNMP protocol, providing very clear faults locating for management and maintenance to save costs.

The platform is widely used in telecom operators, radio and television, electric power, education, cloud computing and information security and other fields. For all-optical networks, the platform can be applied to the construction of national, inter-provincial, intra-provincial trunk lines, local metropolitan area networks and various specialized networks.

The platform supports safe, reliable, independent and transparent signal transmission, and can greatly save optical fiber resources through WDM technology, making it the best solution to deal with the shortage of optical cable resources. It can help customers build an optical transmission network that features long transmission distance, high reliability, safe and flexible transmission, and strong disaster-resistant capability.



Features

- Flexible networking, small footprint, and strong scalability
- Supports hot swap of various service boards
- Supports multiple access services such as SDH, SONET, Ethernet, SAN, OTN and Video
- Line side supports 100G, 200G and 400G single-wave rate
- Support single-fiber unidirectional, single-fiber bidirectional and dual-fiber bidirectional transmission modes
- Supports various networking methods such as chain, star and ring
- Supports client access and interoperability from different vendors
- Supports multiple transmission wavelengths and can add and drop wavelengths at intermediate nodes through OADM
- Supports Web and NetRiver managements based on SNMP
- Support 1+1 power hot-swappable redundant backup with optional AC and DC power supplies

Specifications

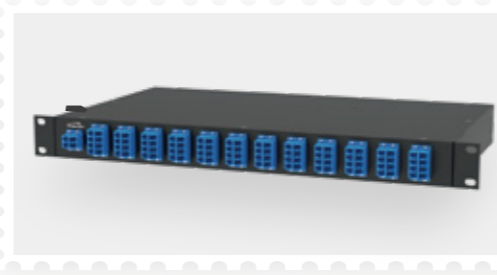
Product Features	Description			
Platform	1U	2U	4U	5U
Size(W×H×D)	440mm×44mm×285mm	440mm×88mm×285mm	440mm×176mm×285mm	440mm×220mm×285mm
Slots	4	8	16	20
Power Consumption	≤120W	≤200W	≤300W	≤400W
Client-side Rate	100GE/OTU4 or 10GE/OC-192/STM-64/8GFC/10GFC/16GFC			
Line-side Rate	100G/200G/400G			
Modulation	QPSK/16QAM/16QAMps			
Operating Temperature	-10°C to +70°C			
Storage Temperature	-40°C to +80°C			
Relative Humidity	5% to 95% (non-condensing)			
Power Supply	AC (90V to 264V, 50/60Hz), DC (-36V to +60V)			

Service Cards



DWDM passive wavelength extension box

48CH 100GHz DWDM MUX DEMUX



Features

- 1U 19" rack mount package based on AAWG
- 100GHz (0.8nm) channel spacing
- Compliant with ITU G.694.1
- Typical insertion loss < 4.0 dB (Gaussian) or < 6.0 dB (Flat-top)
- 1% monitor port for easy troubleshooting without downtime
- LC/UPC duplex connector
- Telcordia GR-1209-CORE and CR-1221-CORE compliant
- RoHS compliant

64CH 75GHz DWDM MUX DEMUX



Features

- 2U 19" rack mount package based on AAWG
- 75GHz (0.6nm) channel spacing
- Compliant with ITU G.694.1
- Typical insertion loss < 6.0 dB (Flat-top)
- 1% monitor port for easy troubleshooting without downtime
- LC/UPC duplex connector
- Telcordia GR-1209-CORE and CR-1221-CORE compliant
- RoHS compliant

96CH 50GHz DWDM MUX DEMUX



Features

- 2U 19" rack mount package based on AAWG
- 75GHz (0.6nm) channel spacing
- Compliant with ITU G.694.1
- Typical insertion loss < 7.3 dB (Flat-top)
- 1% monitor port for easy troubleshooting without downtime
- LC/UPC duplex connector
- Telcordia GR-1209-CORE and CR-1221-CORE compliant
- RoHS compliant