

Multi-Service Access Transmission Platform OT8200

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Overview







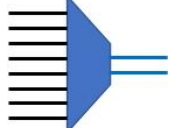



The OnMetro OT8200 is a Multi-Service Platform that offers a full range of solutions for service provider and enterprise, including high density 10G/40G/100G connectivity, distance extension, Ethernet Switch/NID, Fiber Modem, Fiber Multiplexer and Media Converter. It is a fully modular product series that integrates a wide range of optical transport modules for any interface or protocol.



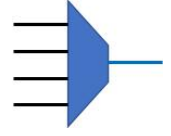





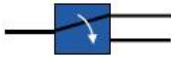



Chassis Overview:

Model	Num of Slot	Slot for NMC	Slot for LC (line card)	Slot for PWR	Slot for FAN	Product
OT8200-1U	10	1	5	2	2	
OT8200-3U	22	1	17	2	2	
OT8200-2S	2	1	1	N/A	N/A	
OT8200-3S	3	1	2	N/A	N/A	

Line Card Overview:

Model	Description	Function	Product
OT8200-NMC	<ul style="list-style-type: none"> - Embedded software on the NMC - Supports CLI based, Web-based and SNMP management options 		
OT8200-10GE-2SFP+	<ul style="list-style-type: none"> - 2 SFP+ ports - 10G Ethernet Media Converter 		
OT8200-10GE-3SFP+	<ul style="list-style-type: none"> - 3 SFP+ ports, with APS function - Switch-over time < 50ms - 10G Ethernet Media Converter 		
OT8200-10GE-MUX8	<ul style="list-style-type: none"> - 8 SFP ports, 2 SFP+ ports - Switch-over time < 50ms - 10G Ethernet multiplexer 		
OT8200-3R-100G-1Q1C	<ul style="list-style-type: none"> - 1 QSFP28 port, 1 CFP2 port - 100G/40G 3R Transponder 		

OT8200-3R-100G-2Q	<ul style="list-style-type: none"> - 2 QSFP28 ports - 100G/40G 3R Transponder 		
OT8200-3R-40G-1Q4S	<ul style="list-style-type: none"> - 1 QSFP+ port, 4 SFP+ ports - 40G 3R Transponder 		
OT8200-3R-10G-2SFP+	<ul style="list-style-type: none"> - 2 SFP+ ports - 10G (Multi-Rate) 3R Transponder 		
OT8200-3R-10G-4SFP+	<ul style="list-style-type: none"> - 4 SFP+ ports - APS option, Switch-over time < 50ms - 10G (Multi-Rate) 3R Transponder 		
OT8200-OP-D	<ul style="list-style-type: none"> - 1+1 protection, dual fiber - Switch-over time < 20ms 		

Advantages

- Compliance with carrier grade standards, all the features of a carrier class
- Flexible mix of services, including up to 100G connectivity, distance extension, Ethernet demarcation, media converter and multiplexer
- Protocol transparent (Ethernet, SDH STM16/STM64, OTUx/ OTUxe, Fiber Channel, OBSAI, CPRI /eCPRI) and low latency, can be used in data network, storage area network (SAN), mobile fronthaul network, video network, OTN etc.
- Centralized management via NMC, telnet, web, console, SNMP and EMS/NMS solutions, simple to Install, configuration and maintenance
- Redundant design for AC/DC PSU and FAN unit
- PSU, FAN, network management card and line cards are hot swappable, allowing online field replacement
- Pay-as-you grow architecture, scalable, flexible for future growth
- All products are green technology with low power consumption compliant with international standards
- Web based, 3rd party SNMP and EMS/NMS management solutions
- No extra licensing or server cost

Product Highlights

- 3U 19" 22-slot chassis with 1 slot for Network Management Card (NMC), 17 slots for Line cards, 2 slots for power modules and 2 slots for fan modules
- 1U 19" 10-slot chassis with 1 slot for Network Management Card (NMC), 5 slots for Line cards, 2 slots for power modules and 2 slots for fan modules
- 2-slot mini chassis with 1 slot for Network Management Card (NMC) and 1 slot for Line card
- 3-slot mini chassis with 1 slot for Network Management Card (NMC) and 2 slot for Line card
- Various line cards, includes media converter, 3R transponder, multiplexer, OAPS
- Single fiber to dual fiber conversion; multi-mode fiber to single-mode fiber conversion; wavelength conversion

- Various SFP/SFP+/QSFP+/QSFP28/CFP2 options support Digital Diagnostic Monitoring Interface (DDMI)
- Egress/Ingress rate management control
- WAN side protection switchover time less than 50ms from active to standby fiber for the MCs with OAPS (Optical Automatic Protection Switch) function
- Programmable link fault pass-through (LFP) or remote fault detection (RFD) function
- Remote power on / off detection with dying gasp alarm
- Remote loopback capability for link integrity test
- Dual hot-swappable power supplies of load sharing
- Dual hot-swappable fan modules with monitoring and alarm features
- Support hardware management such as chassis info, system info, line card type, card hardware version, card location, port description etc.
- Alarm for link status, card plug-in/remove and power on/off
- Wide applications - media conversion, signal repeating, wavelength conversion, redundant links

Network Applications

- **Application: Business Ethernet, Leased Line**

Function & Features:

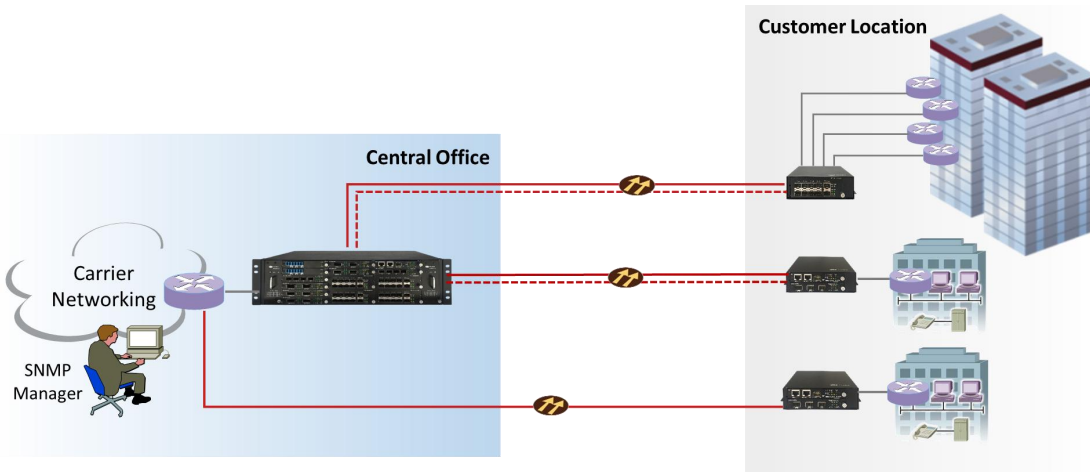
- Ethernet demarcation, guaranteed SLA, separate customer network from operator network
- Media conversion (copper/fiber, MM/SM, dual fiber / single fiber)
- Flex bandwidth control, effective ROI
- In-band management capabilities and remote performance monitoring
- E2E(End to End) hard pipe – fine granularity
- Security – physical layer traffic isolation
- QoS – Guaranteed bandwidth, no packet loss
- Transparent - Unaware to all upper service

Related Products:

OT8200-10GE-2SFP+, OT8200-10GE-3SFP+,
OT8200-10GE-MUX8, OT8200-3R-40G-1Q4S,
OT8200-3R-100G-1Q1C, OT8200-3R-100G-2Q,
OT8200-3R-10G-2SFP+, OT8200-3R-10G-4SFP+

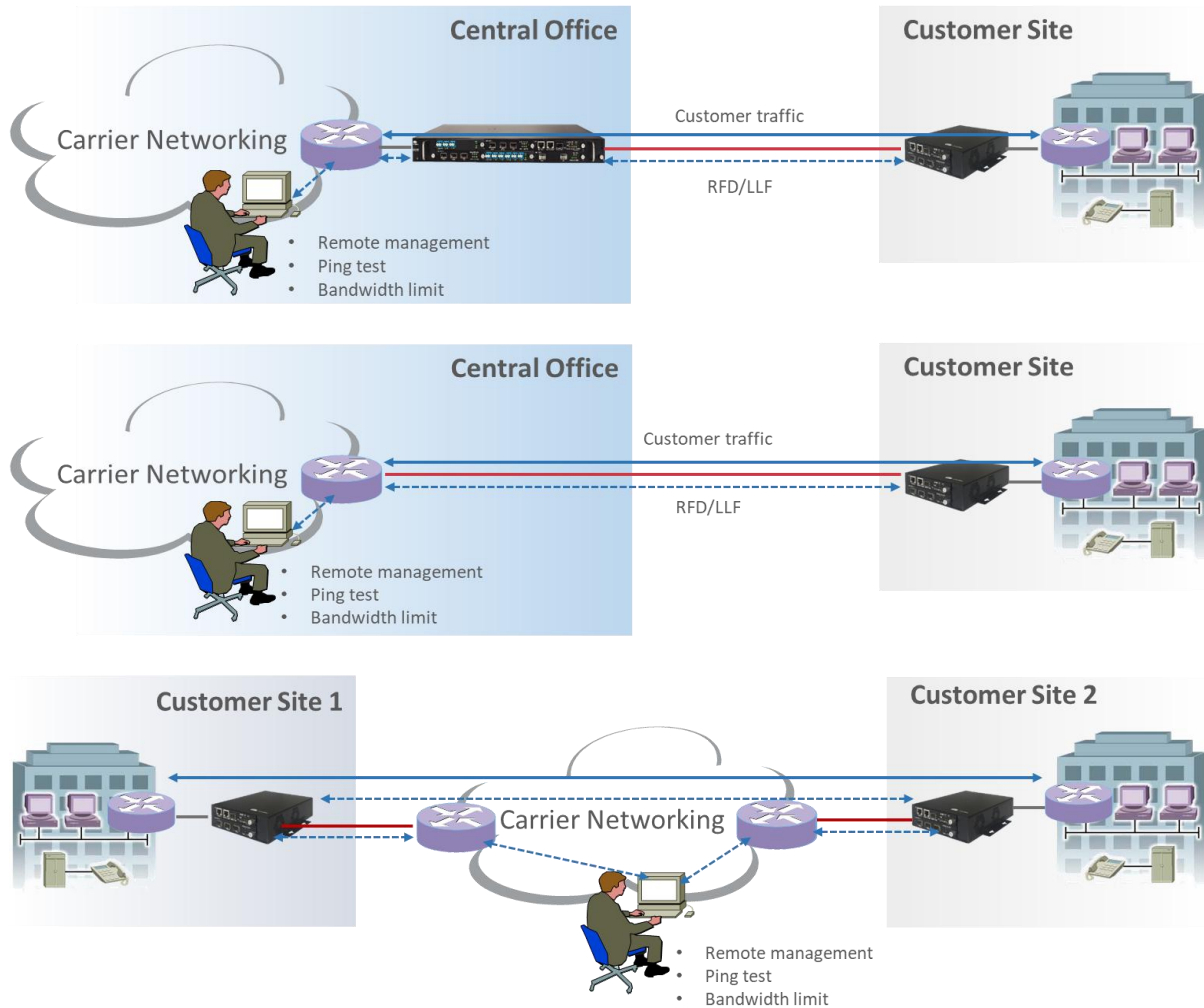
Network Schematic:

Typical deployed in pairs mode, or in standalone mode, or in multi-user multiplexing mode.



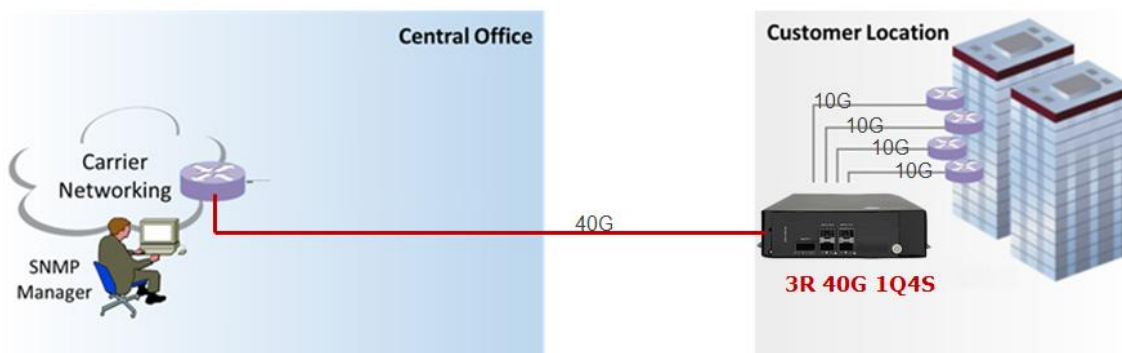
Solution1: 1GE~10GE flex bandwidth

Low operation and maintenance cost
Adjust bandwidth quickly



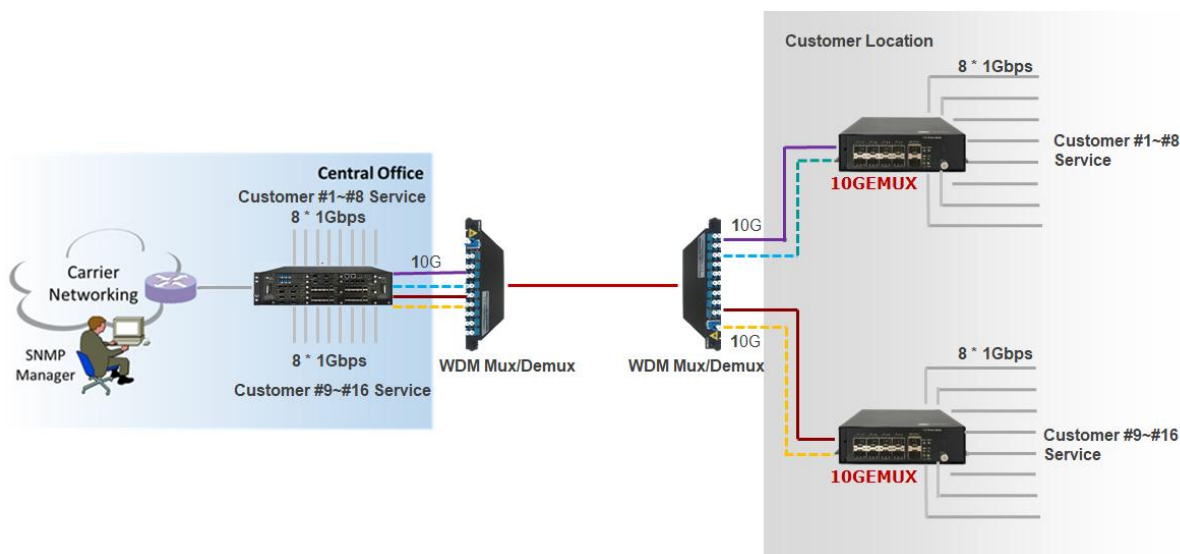
Solution2: 4*10GE Multiplex to 1*40GE

Saving fiber resources

**Solution3: 8*1GE Multiplex to 1*10GE with Protection (Active Mux/Demux)**

Saving fiber resources

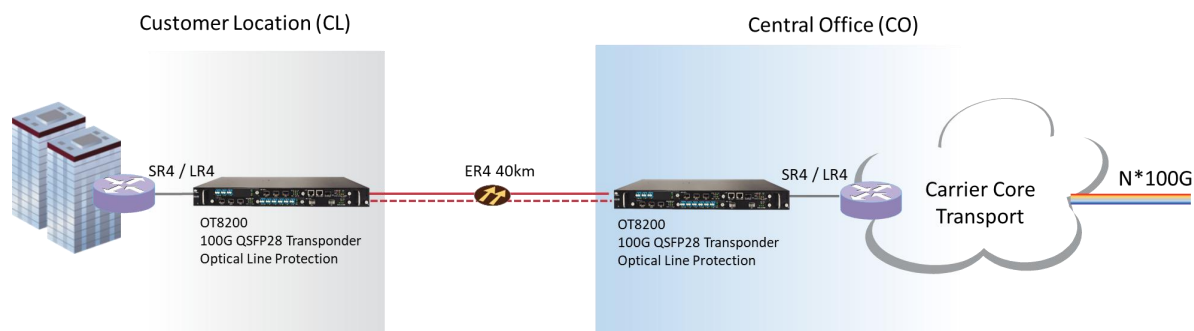
Low cost than WDM solution



- Expanding fiber capacity, lower price than passive WDM solution
- Transport 8 separate L1-like Gigabit Ethernet streams into two 10GE SFP+ based trunk port
- Truly isolated and transparent without any VLAN and MAC address limitation between customers
- Protected high reliable fiber links using
- Protection switch-over time <50ms

Solution4: Cost-effective 100G/40G Access

Plug & Play, less space, low cost, and low power consumption



• Application: Connection Between Data Centers

Function & Features:

- 3R (Regenerator, Reshaper, Retimer)
- Supports 100G/40G repeater mode or multiplexer mode
- SR4/LR4/ER4 distance extension
- Protocol transparent
- Ultra low latency

Related Products:

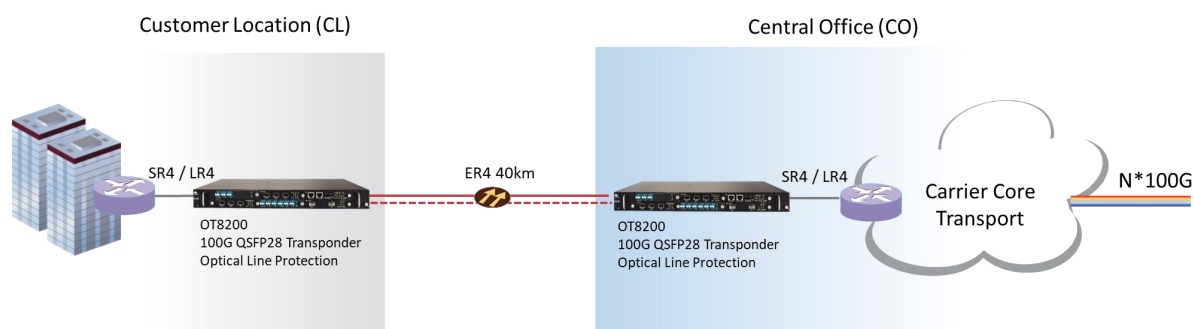
OT8200-3R-100G-1Q1C, OT8200-3R-100G-2Q

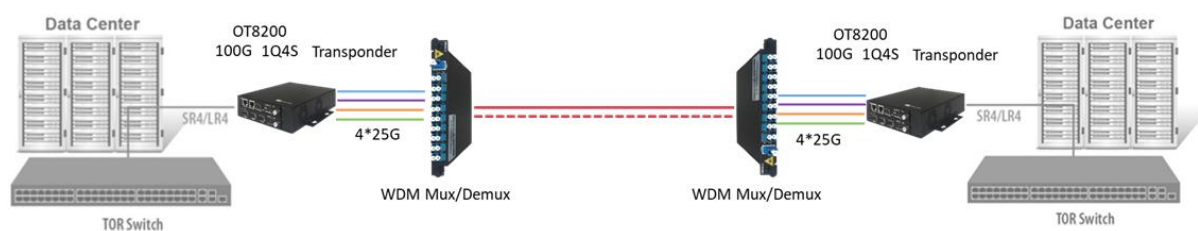
Network Schematic:

Solution1: 100G connection distance extension

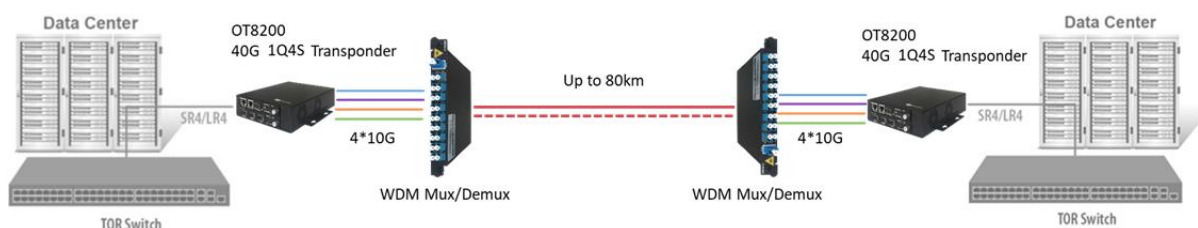
Plug & Play, less space, low cost, and low power consumption

Simple setup and maintenance



Solution2: 100G connection distance extension with WDM

- 4x25G modules will be cheaper than 10x10G modules, cheaper than 100G DWDM transponder
- The power consumption of 4x25G SFP28 is much lower than that of typical 10x10G SFP+, which also gives an advantage in operating costs
- For optical fiber links, migrating from 10G to 100G requires using 10x10G channels, but only 4 channels are needed for 25G to 100G connections, which can greatly save link resources

Solution3: DWDM Solution for Long Distance 40G Network

- This solution enables the use of inexpensive and simple 10Gb DWDM systems to extend a 40GbE service, avoiding the need for new hardware or for an entirely new cabling infrastructure, providing a significant investment protection.

- **Application: Building Agile CWDM, DWDM Infrastructure**

Function & Features:

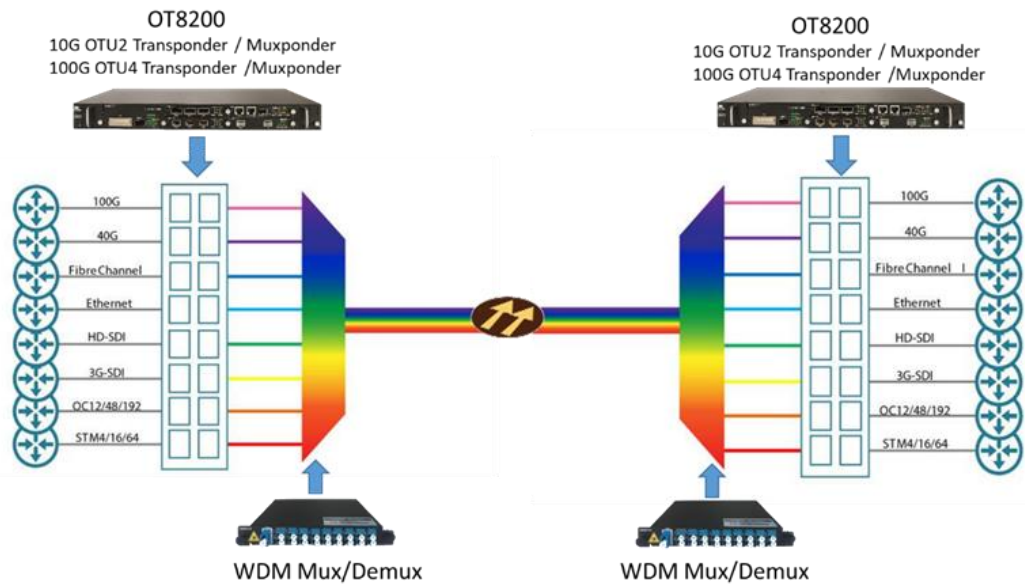
- 3R transponder / muxponder add electrical multiplexing in front of the wavelength, aggregating multiple services into a single wavelength
- Protocol transparent
- Ultra low latency

Related Products:

OT8200-3R-40G-1Q4S, OT8200-3R-100G-1Q4S,
 OT8200-3R-100G-1Q1C, OT8200-3R-100G-2Q,
 OT8200-3R-10G-2SFP+, OT8200-3R-10G-4SFP+
 OT8200-OP-D

Network Schematic:

- Fast turn up of new services
- Easy to manage
- Low OPEX
- Simple Maintenance and Support



ATM	SONET	OC-3,OC-12,OC-24,OC-48,OC-96,OC-192
	SDH	STM-1,STM-4,STM-16,STM-64
DATA	Ethernet	FE, 1GE, 2.5GE, 5GE, 10GE LAN, 10GE WAN, 25GE, 40GE, 100GE
MOBILE	OBSAI	OBSAI x1, x2, x4, x8
	CPRI	CPRI Option1,2,3,4,5,6,7,8,9,10, eCPRI
SAN	Fiber Channel	1/2/4/8/10/16/32/128G FC
VIDEO	Video	HD-SDI, 3G-SDI,6G-SDI,12G-SDI,24G-SDI
HPC	Infiniband	SDR, DDR, 10G SDR, QDR, FDR-10, FDR, EDR, 40G FDR10, 56G FDR, 100G EDR
OTN	OTU	OTU1,OTU1e, OTU1f, OTU2, OTU2e, OTU2f, OTU3, OTU3e1, OTU3e2, OTU4
	ODU	ODU0,ODU1,ODU1e,ODU2,ODU2e,ODU3,ODU3e2,ODU4

OT8200 Chassis Detail

	Model	Description
Chassis	OT8200-1U-AA/DD/AD	<ul style="list-style-type: none"> - Standard 19-inch 1U 10-Slot rack mounted - Support dual hot-swappable power supplies (AC/DC) - 1 slot for NMC, 5 slot for Line Card - 2 slots for FAN module, fan module included - 2 slots for Power module, power module included - -AA includes two AC Power module, - -DD includes two DC Power module, - -AD includes one AC Power module plus one DC Power module
	OT8200-3U-AA/DD/AD	<ul style="list-style-type: none"> - Standard 19-inch 3U 22-Slot rack mounted - Support dual hot-swappable power supplies (AC/DC) - 1 slot for NMC, 17 slots for Line Card - 2 slots for FAN module, fan module included - 2 slots for Power module, power module included - -AA includes two AC Power module, - -DD includes two DC Power module, - -AD includes one AC Power module plus one DC Power module
	OT8200-2S	<ul style="list-style-type: none"> - Wall mount - Support dual power adaptor input, 12VDC - Support dual 48VDC power supply (built-in power) - 2 built-in FANs - 1 slot for NMC, 1 slot for Line Card
	OT8200-3S	<ul style="list-style-type: none"> - Wall mount - Support dual power adaptor input, 12VDC - Support dual 48VDC power supply (built-in power) - 2 built-in FANs - 1 slot for NMC, 2 slot for Line Card
Power Module	AC-DC Adapter	<ul style="list-style-type: none"> - AC-DC Adapter for OT8200-2S and OT8200-3S chassis - 100 ~ 220 VAC-12VDC /2A
	OT8200-AC-1U	<ul style="list-style-type: none"> - AC power module for OT8200-1U chassis - 100~240VAC/1.2A max
	OT8200-DC-1U	<ul style="list-style-type: none"> - DC power module for OT8200-1U chassis - -36~-72VDC/2.5A max
	OT8200-AC-3U	<ul style="list-style-type: none"> - AC power module for OT8200-3U chassis - 100~240VAC/2.5A max
	OT8200-DC-3U	<ul style="list-style-type: none"> - DC power module for OT8200-3U chassis - -36~-72VDC/6A max
FAN Module	OT8200-FAN-1U	<ul style="list-style-type: none"> - Used for OT8200-1U chassis
	OT8200-FAN-3U	<ul style="list-style-type: none"> - Used for OT8200-3U chassis

1U Chassis - OT8200-1U-AA/DD/AD Specification



NMC slot	Number of Units	1
Line card slot	Number of Units	5
Power Supply	Number of Units	2
	Redundancy	Single or dual feeding, pluggable Support dual AC, dual DC or one AC + one DC
	AC Source	100~240VAC, 50/60Hz, 1.2A maximum
	DC Source	-36~-72VDC, 2.5A maximum
	Protective Earthing Conductor	12 AWG minimum
FANs	Maintenance	Replaceable and hot pluggable
	Redundancy	Single or dual FAN module Support single fan failure alarm Two fans can be swapped to each other
	AIR Flow	12.8 CFM (8 fans 0.416 m3/min each)
	Air flow direction	from left to right
Physical Dimensions	Height	44mm (1U)
	Width	440mm
	Depth	309mm
	Weight	4Kg
	Mounting options	19'', 23'', ETSI rack mountable
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 70°C
	Humidity	5% ~ 95% RH Non-condensing

Typical configuration power consumption:

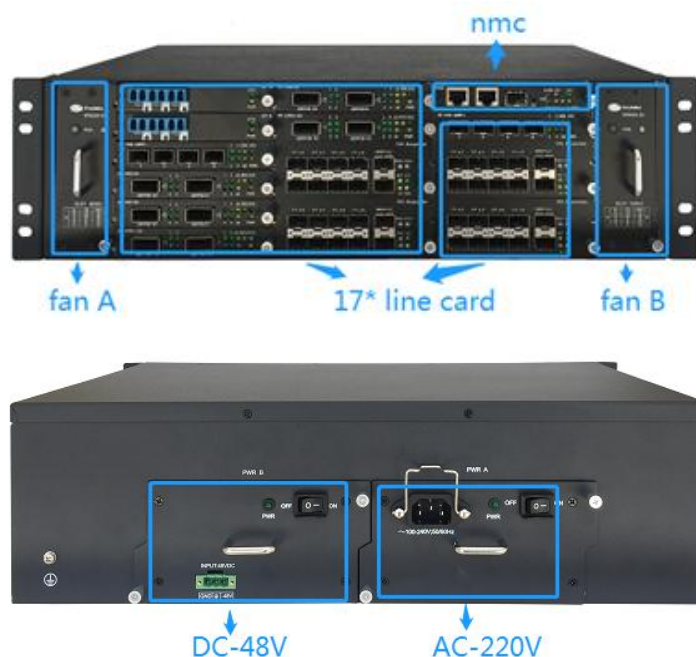
Configuration (service is running)	Typical power consumption
2*FAN Module + 2*1U-DC (Without NMC and Line card)	1.3W
2*FAN Module + 2*1U-DC + 1*NMC	13W
2*FAN Module + 2*1U-DC + 1*NMC + 3* 10GE-2SFP+ line card + 2* 10GE-3SFP+ line card	63W

2*FAN Module + 2*1U-DC + 1*NMC + 5* 3R-100G-2Q line card	62W
2*FAN Module + 2*1U-DC + 1*NMC + 5* 3R-10G-2SFP+ line card	64W
2*FAN Module + 2*1U-DC + 1*NMC + 5* 3R-10G-4SFP+ line card	79W
2*FAN Module + 2*1U-DC + 1*NMC + 2* 10GE-MUX8 line card	54W
2*FAN Module + 2*1U-DC + 1*NMC + 5* OT8200-OP-D line card	16W
2*FAN Module + 2*1U-AC + 1*NMC	13W
2*FAN Module + 2*1U-AC + 1*NMC + 5* 3R-100G-2Q line card	62W

 Note:

- The power consumption in the table is the power consumption of specific configuration. For reference, the power consumption in actual configuration can be calculated according to the power consumption of module and transeiver.
- In case of OT8200-1U chassis without any line card and NMC, the FAN modules will stop automatically.

3U Chassis - OT8200-3U-AA/DD/AD Specification



NMC slot	Number of Units	1
Line card slot	Number of Units	17
Power Supply	Number of Units	2
	Redundancy	Single or dual feeding, pluggable Support dual AC, dual DC or one AC + one DC
	AC Source	100~240VAC, 50/60Hz, 2.5A maximum
	DC Source	-36~-72VDC, 8A maximum
	Protective Earthing conductor	12 AWG minimum
FANs	Maintenance	Replaceable and hot pluggable
	Redundancy	Single or dual FAN module Support single fan failure alarm FAN A and FAN B cannot be swapped each other
	AIR Flow	36.4CFM (12*Fan 61.8M3/H)
	Air flow direction	from left to right
Physical Dimensions	Height	130mm (3U)
	Width	440mm
	Depth	309mm
	Weight	9Kg
	Mounting options	19", 23", ETSI rack mountable
Environment	Operating temperature	0°C ~ 55°C
	Storage temperature	-20°C ~ 75°C
	Humidity	5% ~ 95% RH Non-condensing

Typical configuration power consumption:

Configuration (service is running)	Typical power consumption
2*FAN Module + 2*3U-DC (Without NMC and Line card)	5W
2*FAN Module + 2*3U-DC + 1*NMC	21W
2*FAN Module + 2*3U-DC + 1*NMC + 1* OT8200-3R-100G-2Q line card (each card with 2* QSFP28 ER4 transceivers)	30W
2*FAN Module + 2*3U-AC (Without NMC and Line card)	5.1W
2*FAN Module + 2*3U-AC + 1*NMC	21W

 Note:

The power consumption in the table is the power consumption of specific configuration. For reference, the power consumption in actual configuration can be calculated according to the power consumption of each module and transceiver.


2-Slot Chassis - OT8200-2S Specification



NMC slot	Number of Units	1
Line card slot	Number of Units	1
Power Supply	Number of Units	4 (Support dual AC and dual DC)
	Redundancy	Single or dual feeding
	AC Source	12VDC/2A AC-DC power adapter
	DC Source	Built-in 48VDC/1A power supply
FANs	Number	2 built-in FAN
	Air flow direction	from left to right
Physical Dimensions	Height	44mm
	Width	200mm
	Depth	148mm
	Weight	0.9Kg
	Mounting options	Wall mount or desktop
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 70°C
	Humidity	5% ~ 95% RH Non-condensing

Typical configuration power consumption:

Configuration (Service is running)	Typical power consumption
1* 48VDC + 1* 10GE-MUX8 line card	22W
1* 48VDC + 1* 10GE-3SFP+ line card	15W
1* 48VDC + 1* 3R-10G-2SFP+ line card	14W
1* 48VDC + 1* 3R-10G-4SFP+ line card	17W
1* 48VDC + 1*NMC + 1* 3R-100G-2Q line card	17W
2* 12VDC + 1* 10GE-MUX8 line card	21W

 Note: The power consumption in the table is the power consumption of specific configuration. For reference, the power consumption in actual configuration can be calculated according to the power consumption of each module and transceiver.

Network Management Card (NMC) Specification

The embedded software on the NMC supports command line interface (CLI) based (console, telnet), Web-based and SNMP management options.



Model	Description
OT8200-NMC	<ul style="list-style-type: none"> - Embedded software on the NMC - 1 * 10/100/1000Base-T RJ45 Ethernet management port - 1 * 100Base-FX/1000Base-X SFP Ethernet management port - 1 * CONSOLE port - Supports CLI based, Web-based and SNMP management options

Specification:

Supervisory and Management Ports	Console Port	Interface: RS-232 Connector: RJ45 Format: Asynchronous Band rate: 57600 bps Word format: 8 bits, no parity, 1 stop bit Flow control: None
	Ethernet Copper Port	Interface: 10/100/1000Base-T Connector: RJ45
	Ethernet SFP Port	Interface: 100Base-FX or 1000Base-X, configure by DIP Connector: SFP transceiver
Button (RST)	Reset	Press the button and hold for more than 10 seconds, the "IP address" and "User Accounts" of NMC will be reset to factory default setting in further 2 seconds Operate on the RST button will not affect to NMC others configuration and Line card service
System Time	Hardware based Real-Time clock	
Power consumption	2W (Not include power consumption of SFP transceiver)	
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 85°C
	Humidity	5% ~ 95% RH Non-condensing
Network Management	Protocols	CLI over RS-232 or telnet Web-based HTTP management SNMP v1, v2c, v3 Syslog

		SNTP TFTP for file transfer
	Alarms	Current alarms are available, each alarm is time stamped.
	Log	Last 500 logs and audit messages are available, each log is time stamped. The logs and audit messages are stored in system log files and won't lose during power failure.

OT8200 Line Card Overview

OT8200 system uses the same plug-in card in both carrier center chassis and the remote converter unit. There are different kinds of plug-in line cards for different applications.

The pictures of all the plug-in line cards are shown as below.



Category	Model	Description
10GE Media Converter	OT8200-10GE-2SFP+	2* SFP+ ports Support 1GE/2.5GE/5GE/10GE Ethernet Bandwidth limit function
	OT8200-10GE-3SFP+	3* SFP+ ports with APS function Switch-over time < 50ms Support 1GE/2.5GE/5GE/10GE Ethernet Bandwidth limit function
10GE Multiplexer	OT8200-10GE-MUX8	8* 100Base-FX/1000Base-X SFP ports 2* 10GE SFP+ ports, with APS function Switch-over time < 50ms
100G 3R Transponder	OT8200-3R-100G-1Q1C	1* CFP2 and 1* QSFP28 port Protocol Transparent Support 10GE/25GE/40GE/100GE Support CPRI Option8,9,10
	OT8200-3R-100G-2Q	2* QSFP28 ports Protocol Transparent Support 10GE/25GE/40GE/100GE Support CPRI Option8,9,10

10G 3R Transponder	OT8200-3R-10G-2SFP+	2* SFP+ ports Protocol Transparent Support 1GE/2.5GE/5GE/10GE Support OC-24/48/96/192, STM-16/64 Support CPRI Option2,3,5,7,8
	OT8200-3R-10G-4SFP+	4* SFP+ ports APS option, Switch-over time < 50ms Protocol Transparent Support 1GE/2.5GE/5GE/10GE Support OC-24/48/96/192, STM-16/64 Support CPRI Option2,3,5,7,8
Fiber Optical Switch	OT8200-OP-D	Dual fiber, 1+1 protection Switch-over time < 20ms

OT8200-10GE-2/3SFP+ Specification



OT8200-10GE-2SFP+



OT8200-10GE-3SFP+

Interface	Number of LAN Ports	1*SFP+ ports	
	Number of WAN Ports	OT8200-10GE-2SFP+: 1*SFP+ ports OT8200-10GE-3SFP+: 2*SFP+ ports, APS	
	Wavelengths	Depends on SFP+ transceiver	
	Optical Reach	Depends on SFP+ transceiver	
	Data Rates	10GE/5GE/2.5GE/1GE Ethernet	
	Connectors	SFP+ transceiver	
Power consumption	OT8200-10GE-2SFP+: 5.2W OT8200-10GE-3SFP+: 5.4W		
Environment	Operating temperature	0°C ~ 50°C	
	Storage temperature	-20°C ~ 85°C	
	Humidity	5% ~ 95% RH Non-condensing	
Features	Management	In-band or out-band	
	Transparent	Unaware to all upper service	
	MTU	9216 Bytes	
	RFD	Support	
	ALS	Support	
	Dying gasp	Support	
	Standalone	Support	
	Bandwidth limit	rate	step

		< 10Mbps	1Mbps
		10~100Mbps	10Mbps
		100~1000Mbps	50Mbps
		1~10Gbps	1Gbps
	APS	Only available for OT8200-10GE-3SFP+ Switch time <50ms Auto (link down or signal degrade) or Manual Revertive and Non-Revertive	
Diagnosis	IP ping	Support, disable by default.	
	Loopback	Line side or Client side	
	MIB Counter	Support	

OT8200-10GE-MUX8 Specification



OT8200-10GE-MUX8

Interface	Number of LAN Ports	8*SFP ports
	Number of WAN Ports	2*SFP+ ports, APS
	Wavelengths	Depends on SFP/SFP+ transceiver
	Optical Reach	Depends on SFP/SFP+ transceiver
	Data Rates	10GE/1GE Ethernet
	Connectors	SFP/SFP+ transceiver
Power consumption	9W	
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 85°C
	Humidity	5% ~ 95% RH Non-condensing
Features	Transparent	Unaware to all upper service
	MTU	9216 Bytes
	Per-Port RFD(LFP)	Support
	Per-Port ALS	Support
	Dying gasp	Support
	Per-Port Bandwidth limit	Support
	APS	Switch time <50ms Auto (link down or signal degrade) or Manual Revertive and Non-Revertive
Diagnosis	IP ping	Support, disable by default
	Per-Port Loopback	Line side or Client side
	Per-Port MIB Counter	Support, 64-bits counters

	DDM (Digital Diagnostics Monitoring)	Support
Management	In-Band	

OT8200-3R-100G-1Q1C/2Q Specification



OT8200-3R-100G-1Q1C

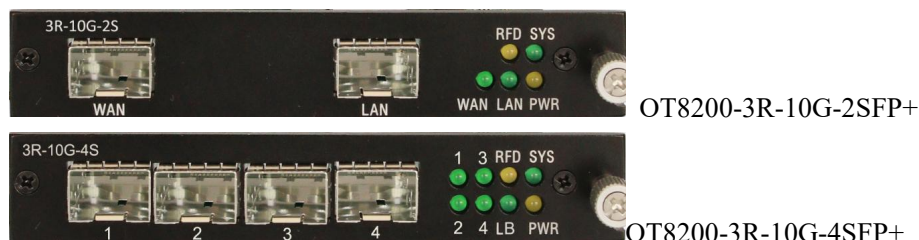


OT8200-3R-100G-2Q

Interface	Number of Ports	OT8200-3R-100G-1Q1C: 1*CFP2 port and 1*QSFP28 port OT8200-3R-100G-2Q: 2*QSFP28 ports		
	Wavelengths	Depends on CFP2/QSFP28 transceiver		
	Optical Reach	Depends on CFP2/QSFP28 transceiver		
	Data Rates	DATA Ethernet	10GE LAN, 25GE, 40GE, 100GE	
		MOBILE CPRI	CPRI Option8,9,10	
		STORAGE Fiber Channel	10/16/32/128G FC	
		HPC Infiniband	FDR-10, FDR, EDR, 40G FDR10, 56G FDR, 100G EDR	
OTN(Optical Transport Network)		OTU1, OTU2, OTU1e, OTU2e, OTU1f, OTU2f, OTU3, OTU3e1, OTU3e2, OTU4		
Connectors	CFP2/QSFP28 transceiver			
Power consumption	OT8200-3R-100G-1Q1C: 3W OT8200-3R-100G-2Q: 3.2W			
Environment	Operating temperature	0°C ~ 50°C		
	Storage temperature	-20°C ~ 85°C		
	Humidity	5% ~ 95% RH Non-condensing		
Features	Management	Out-band		
	Transparent	Protocol transparent Unaware to all upper service		

	MTU	No limit
	RFD	Support
	ALS	Support
	Dying gasp	Support
Diagnosis	Loopback	Line side or Client side

OT8200-3R-10G-2/4SFP+ Specification



Interface	Number of Ports	OT8200-3R-10G-2SFP+: 2* SFP+ ports OT8200-3R-10G-4SFP+: 4* SFP+ ports
	Wavelengths	Depends on SFP+ transceiver
	Optical Reach	Depends on SFP+ transceiver
	Connectors	SFP+ transceiver
	Data Rates	8.5~11.3Gbps
Power consumption	OT8200-3R-10G-2SFP+: 1W OT8200-3R-10G-4SFP+: 1W (Not include power consumption of SFP+ transceiver)	
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 85°C
	Humidity	5% ~ 95% RH Non-condensing
Features	Management	Out-band
	Transparent	Protocol transparent Unaware to all upper service
	MTU	No limit
	RFD	Support
	ALS	Support
	Dying gasp	Support
Diagnosis	Loopback	Line side or Client side

OT8200-3R-40G-1Q4S Specification



Interface	Number of Ports	4*SFP+ ports, 10Gbps 1*QSFP+ port, 40Gbps
	Wavelengths	Depends on QSFP+ & SFP+ transceiver
	Optical Reach	Depends on QSFP+ & SFP+ transceiver
	Data Rates	Aggregate Data Rate: 40~56.8Gbps Data Rate per Lane: 10~14.2Gbps
	Connectors	QSFP+ & SFP+ transceiver
Power consumption	<12W	
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 85°C
	Humidity	5% ~ 95% RH Non-condensing
Features	Management	Out-band
	Transparent	Protocol transparent Unaware to all upper service
	MTU	No limit
	RFD (LFP)	Support
	ALS	Support
	Dying gasp	Support
Diagnosis	Loopback	Line side or Client side
	DDM (Digital Diagnostics Monitoring)	Support

OT8200-OP-D Specification



OT8200-OP-D

Interface	Number of Ports	OT8200-OP-D: 3×Transparent LC Connector
	Wavelengths	1260nm~1620nm
	Connectors	LC Connector

	Insertion loss	TX \leq 4.0dB, RX \leq 1.5dB
	Return Loss	\geq 45dB
	Cross-talk:	\leq 55dB
	Monitoring range of optical power	-32 ~ +3dBm
	Optical power measurement accuracy	\leq 0.5dB
Power consumption	OT8200-OP-D: 0.7W	
Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 85°C
	Humidity	5% ~ 95% RH Non-condensing
Features	Management	Out-band
	Transparent	Unaware to all upper service
	MTU	No limit
	APS	Switch time <20ms Auto (link down or signal degrade) or Manual Revertive and Non-Revertive
	Dying gasp	Support

Ordering Information

	Part Number	Description
Chassis	OT8200-1U-AA	Standard 19-inch 1U 10-Slot rack mounted chassis Include 2x FAN module and 2x AC power module
	OT8200-1U-DD	Standard 19-inch 1U 10-Slot rack mounted chassis Include 2x FAN module and 2x DC power module
	OT8200-1U-AD	Standard 19-inch 1U 10-Slot rack mounted chassis Include 2x FAN module and 1x DC power module and 1x AC power module
	OT8200-3U-AA	Standard 19-inch 3U 22-Slot rack mounted chassis Include 2x FAN module and 2x AC power module
	OT8200-3U-DD	Standard 19-inch 3U 22-Slot rack mounted chassis Include 2x FAN module and 2x DC power module
	OT8200-3U-AD	Standard 19-inch 3U 22-Slot rack mounted chassis Include 2x FAN module and 1x DC power module and 1x AC power module
	OT8200-2S	2-slot mini chassis, include 1x 12V/2A power adapter
	OT8200-3S	3-slot mini chassis, include 1x 12V/2A power adapter
Power Module	AC-DC Adapter	AC-DC Adapter for OT8200-2S and OT8200-3S chassis 100 ~ 220 VAC-12VDC /2A
	OT8200-AC-1U	AC power module for OT8200-1U chassis 100~240VAC/1.2A max

	OT8200-DC-1U	DC power module for OT8200-1U chassis -36~-72VDC/2.5A max
	OT8200-AC-3U	AC power module for OT8200-3U chassis 100~240VAC/2.5A max
	OT8200-DC-3U	DC power module for OT8200-1U chassis -36~-72VDC/6A max
FAN Module	OT8200-FAN-1U	Used for OT8200-1U chassis
	OT8200-FAN-3U	Used for OT8200-3U chassis
Management Card	OT8200-NMC	Suitable for all chasses, managing all line cards 1x 10/100/1000Base-T RJ45 and 1x 100Base-FX/1000Base-X SFP Supports CLI based, Web-based and SNMP management options
Line Card	OT8200-10GE-2SFP+	2* SFP+ ports Support 1GE/2.5GE/5GE/10GE Ethernet
	OT8200-10GE-3SFP+	3* SFP+ ports with APS function Switch-over time < 50ms Support 1GE/2.5GE/5GE/10GE Ethernet
	OT8200-10GE-MUX8	8* 100Base-FX/1000Base-X SFP ports 2* 10GE SFP+ ports, with APS function Switch-over time < 50ms
	OT8200-3R-100G-1Q1C	1* CFP2 and 1* QSFP28 port Protocol Transparent, 20.2Gbps~28.4Gbps, 80.8Gbps~113.6Gbps
	OT8200-3R-100G-2Q	2* QSFP28 ports Protocol Transparent, 10.1Gbps~14.2Gbps, 40.4Gbps~56.8Gbps, 20.2Gbps~28.4Gbps, 80.8Gbps~113.6Gbps
	OT8200-3R-10G-2SFP+	2* SFP+ ports Protocol Transparent, 8.5Gbps~11.3Gbps
	OT8200-3R-10G-4SFP+	4* SFP+ ports Dual-Channel, APS, Monitor Mode APS option, Switch-over time < 50ms Protocol Transparent, 8.5Gbps~11.3Gbps
	OT8200-OP-D	Dual fiber, 1+1 protection Switch-over time < 20ms

Related Products

Please contact sales@firstmile.com.cn for WDM and SFP/SFP+ module information.