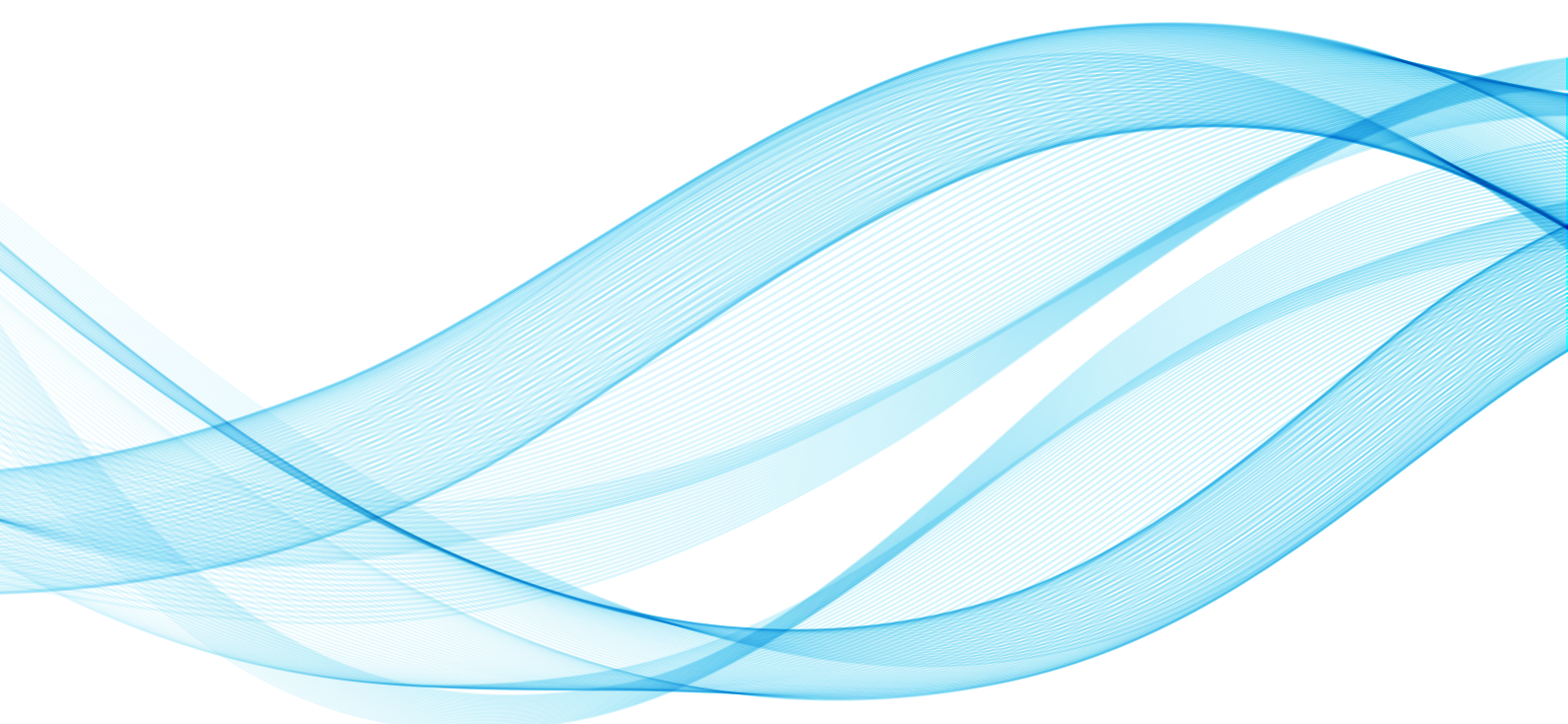




Innovative Optical
Transmission Equipment Manufacturer

OTN Optical Transmission Series Product Catalog



**OPTICAL
TRANSPORT NETWORKING**

www.cdatic.com

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1. Product Introduction

Advantages of CDTrans Optical Transmission Series Products



1. Sustainable R&D, Keep Up with Market

C-Data has a professional R&D team, which can quickly upgrade all products to meet the diversified needs of customers.

3. Low-Cost Configuration, High-Quality Products

The customers' requirements for high-quality system products are met by relying on mature supply chain and rich application experience.

5. Forward-looking Technology, Diversified Products

With coherent optical technology, optical amplification, optical cross-connection, we can meet the requirements of high-speed, large-particle, long-haul, multi-cross, and full-service WDM transmission.

2. Compact Design, Suitable for Multiple Environments

CDTrans optical transmission series products have excellent performance. Through excellent heat dissipation and power supply design, with industrial-grade chips, which are suitable for harsh environments.

4. Efficient Network Management, Preventive Maintenance

A simple and efficient network management interface is configured. It can inform maintenance personnel of major faults by a short message in time.

Wavelength Division Transmission System

Wavelength division transmission system provides an excellent optical transmission platform for metropolitan. It integrates WDM technology, applies advanced optical transmission and highly integrated technology. With the functions of high-speed, large-capacity and fully transparent, which can realize the upgrade of network capacity and provide a comprehensive, flexible and mature protection scheme.

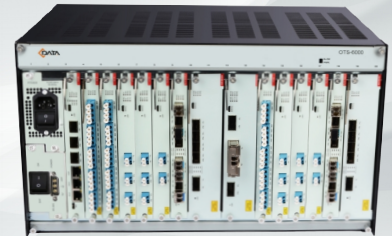
Our WDM is divided into 1U/2U/6U, which includes NMU, Mux/Demux, OTU/MOTU, EDFA, OLP, DCM, etc. The service cards are hot pluggable and can be used in all series of machine frames. It has the characteristics of compact structure, flexible configuration, low power consumption, and the humanized network management interface of B/S architecture is supported. The maintenance is simple.



CDTrans-1000



CDTrans-2000



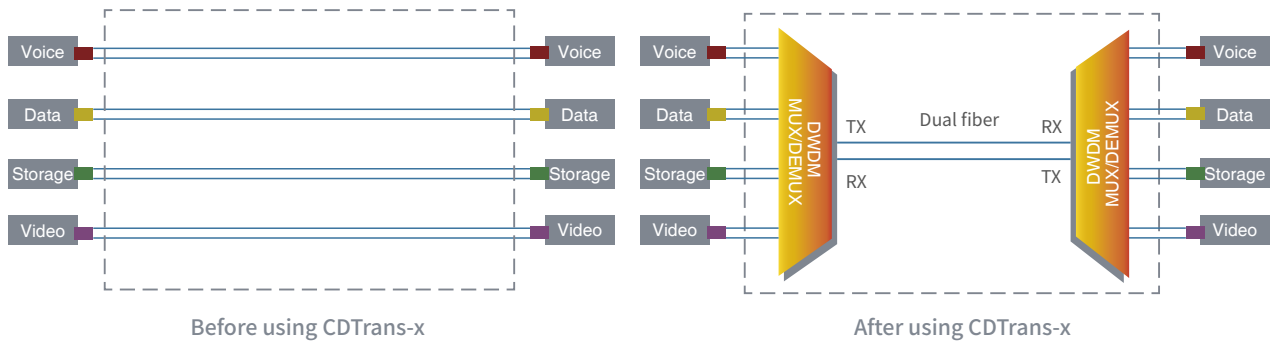
CDTrans-6000

Product Highlights

- Standard 1U / 2U / 6U rack design, adopts the front outlet mode
- Support 100 Mbit / s ~ 200 Gbit / s rate of all types of services WDM
- Support CWDM and DWDM, and can be used in both coarse and dense waves
- Support single fiber unidirectional, single fiber bidirectional and dual fiber bidirectional
- Support the unified network management platform and provides perfect network and equipment performance monitoring
- Support AC /DC power supply, 1 + 1 power protection
- Simple installation, fast service loading and debugging

Save Optical Fiber Resources

Wavelength Division Transmission System can multiplex multiple services to a single optical fiber, and support multiple signals to transmit at the same time, which can maximize the utilization of optical fiber.



Application sceneries



Telecom



Broadcast & television



IDC service provider



Private network customers:
Banking, School, Government...

CDTransView Optical Transmission Network Management Unit



CDTrans-NMU can realize the comprehensive management of CDTrans WDM transmission system. It supports remote connection, chain, ring, and ring chain networking to realize one-point access to the whole network. It supports Web and CLI, and can build professional network management solutions.



Management type

- Web
- CLI



Fault management

- Show alarms
- Forward to email server



Monitor management

- Multi-site remote monitoring
- Optical performance monitoring

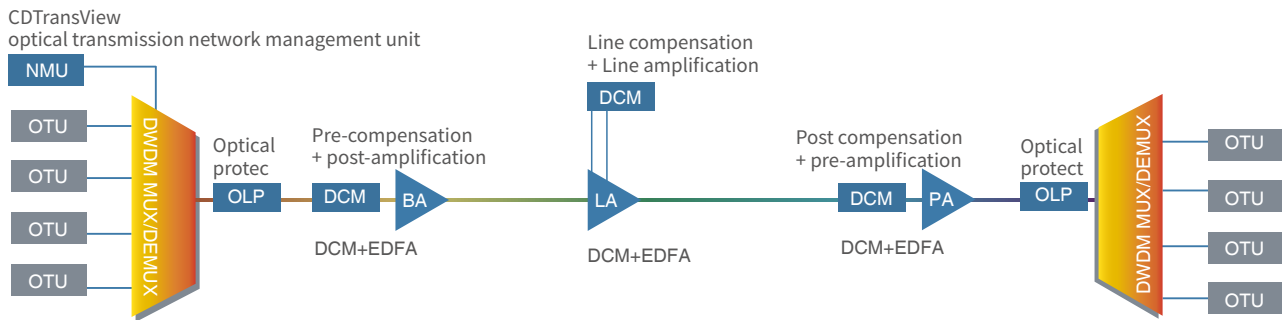
Product Description

Items	Description		
Model	CDTrans-1000	CDTrans-2000	CDTrans-6000
Dimension	1U	2U	6U
(H*W*D)	45 * 440 * 320 mm	89 * 440 * 380 mm	260 * 440 * 320mm
Slots	4 slots	8 slots	20 slots
Maximum Power	<60W	<120W	<550W
Number of channels	8	16	48/96
Networking topology	Point to point, chain, star, ring, ring with chain, mesh network		
Wavelength range	DWDM: 1528nm~1568nm CWDM: 1271~1611nm		
Wavelength interval	50GHz/100GHz fixed grid		
Optical interface	SDH rate: STM-1 / 4 / 16 / 64		
transmission mode	Ethernet rate: FE/GE/10GE/25GE/100GE CPRI rate: CPRI1-8 or eCPRI FC rate: 2G/4G/8G/10G/16G/32GFC OTU rate: OTU1/OTU1e/OTU1f, OTU2/OTU2e/OTU2f, OTU3.4, OTU4.4		
Support Service types	SDH/SONET, Ethernet, SAN, OTN, Video, CPRI		
Power supply mode	110V-220V AC - 48V DC 1 + 1 hot backup		
Operating environment	Temperature: - 10 °C ~ 60 °C Humidity: 5 ~ 95% no condensation		
Storage environment	Temperature: - 40 °C ~ 80 °C		
Dissipate heat	1*Fan, hot pluggable		
Security and EMC	FCC, UL, CE, TUV, CSA		
Management interface	3*FE RJ45; 3*FE SFP; 2*Micro USB		
Network management mode	WEB, CLI		

Networking Application

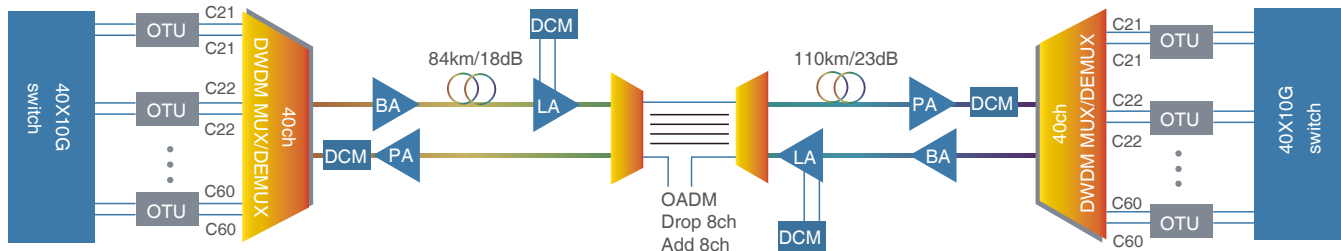
Point-to-Point

The transmission of Point-to-Point uses single or dual fiber. Using WDM technology, to realize the transmission of multiple different types of services. (SDH, SONET, Ethernet, Fibre Channel, CPRI, etc.)



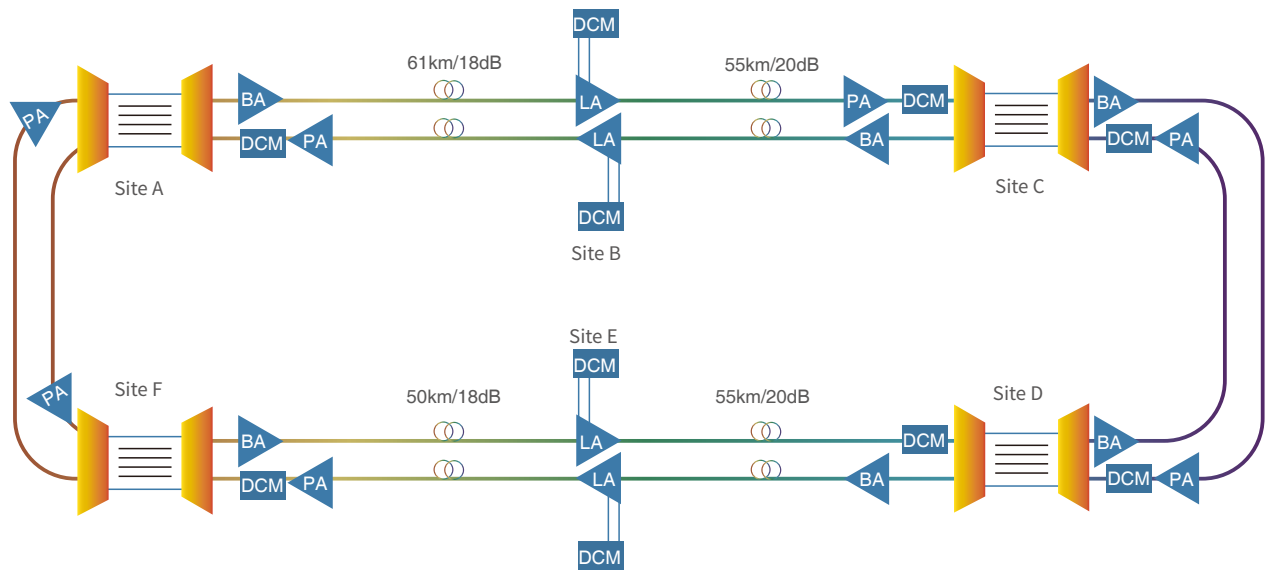
Chain network

Chain transmission uses a WDM system to realize the interconnection of different types of services (SDH/SONET, Ethernet, FC, CPRI, etc.) between each node in single-core or dual-core optical fiber.



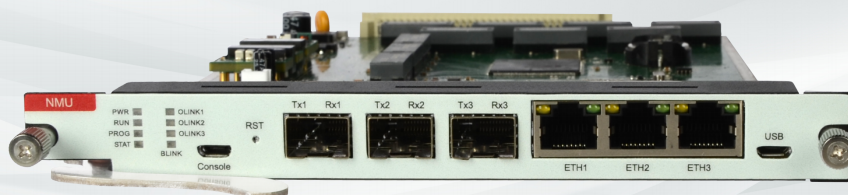
Ring network

Ring network transmission uses multiplex services between each node of WDM equipment to form a ring network transmission. Ring network equipment can be used as an optical cable protection system and network management monitoring, to realize the interconnection of multiple different types of services (SDH/SONET, Ethernet, FC, CPRI, Internet, SAN, etc.) between each node of single-core or dual-core optical fiber.

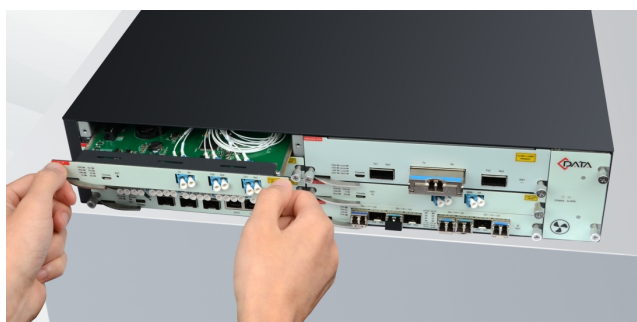


CDTrans-NMU

The network management system composed of CDTrans-NMU can realize the comprehensive management of CDTrans-X wavelength division transmission system. It supports remote connection, chain, ring, and ring chain networking to realize one-point access to the whole network. It supports Web and CLI, and can build professional network management solutions.



Product Highlights



- **Support hot pluggable, easy to maintain and manage**

The push rod can help users easily and quickly insert/remove NMU.



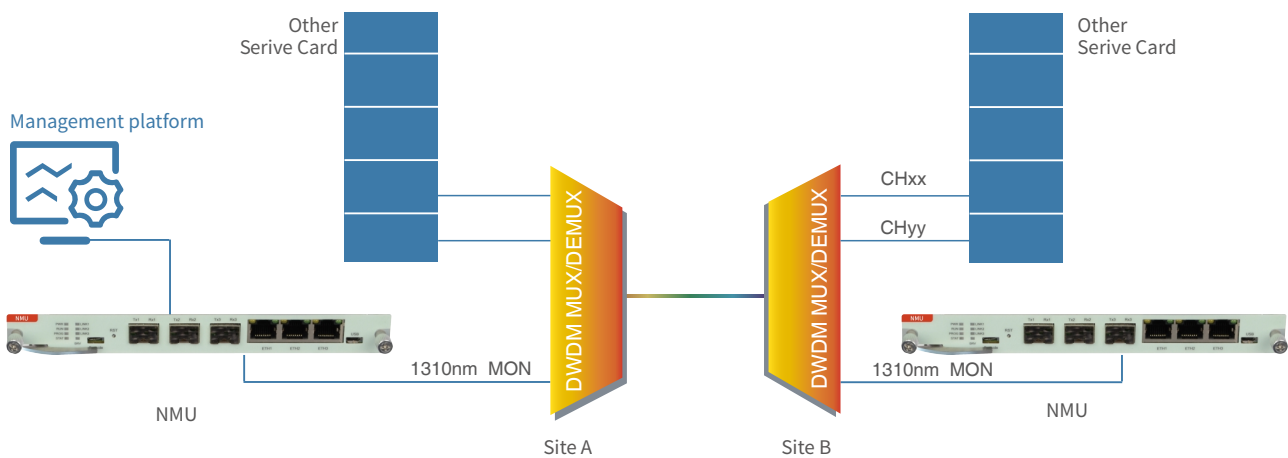
- **Rapid deployment**

Rapid software deployment, efficient configuration with the help of Web interface, integrates system management, real-time monitoring and alarm functions.

Product Description

Items	Description
Dimension (H*W*D)	22*170*245mm
Port	3*FE SFP 3*FE RJ45 2*Micro USB
Network management mode	CLI ,WEB
Power consumption	<10W
Working environment	Temperature: -10°C ~ 60°C Humidity: 5% ~ 95% without condensation
Storage environment	Temperature: -40°C ~ 80°C
Security and EMC	FCC, UL, CE, TUV, CSA

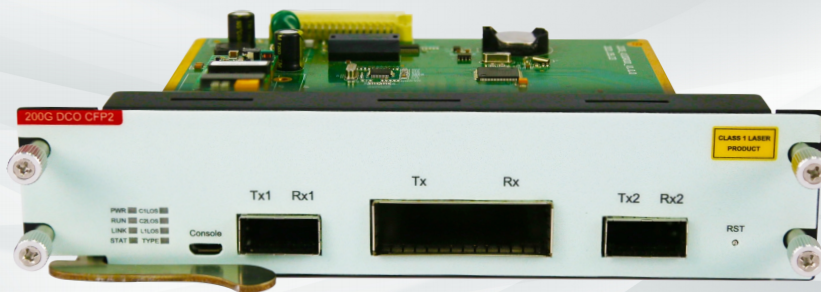
Point-to-Point



CDTrans-COTU

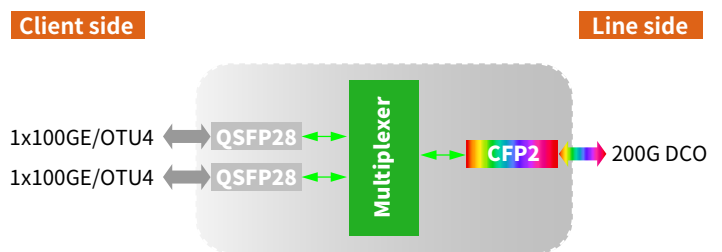
COTU200G-M1H2-DCO muxponder card adopts advanced technologies such as coherent technology, QPSK, DP-8QAM or DP-16QAM high-order modulation, coherent DSP and photon integration, which can realize 800-2000 km transmission, and supports C-band 96-wave (50GHz) tunability.

COTU200G-M1H2-DCO realizes the multiplexing of two 100G service signals into one 200G line signal, and converts the line signal into coherent optical of one standard DWDM wavelength, to access the DWDM combiner and splitter for wavelength division multiplexing transmission. It is the best solution for the shortage of optical fiber resources, excessive loss of optical fiber lines, long-haul and super-capacity transmission.



Product Highlights

- Support DWDM wavelength conversion, and the wavelength is tunable.
- A single board supports two 100G bidirectional service access.
- The line side adopt 200G CFP2 coherent optical module.
- The client side supports multiple services interfaces: 100G Base-SR4/LR4/ER4/CWDM4/PSM4/OTU4.4.
- Support Web, CLI.
- Support manual shutdown laser.
- Support 3R function to improve signal quality and transmission performance.
- Support DDM signal monitoring and ALS.

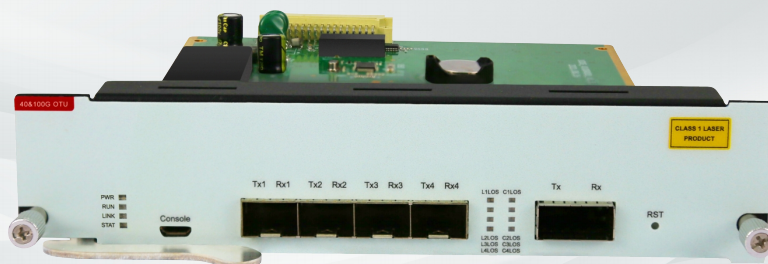


Product Description

Items	Description
Model	COTU200G-M1H2-DCO
Port	Client side, 2*QSFP28, hot pluggable Line side, 1 CFP2, hot pluggable
Line mode	1 channel 200G line signal uses 1 DWDM wavelength for coherent transmission
Relay mode	Support 200G OEO
Type of service	100GE, OTU4
Modulation mode	DP-QPSK/DP-8QAM/DP-16QAM
FEC	SD-FEC/SCFEC/OFEC
WDM wavelength	Support C-band 48/96 wavelengths
Transmission distance	120-2000km
Slots	2 slots
Network management function	CLI, WEB Optical module Los alarm Support DDM real-time optical port information monitoring Support no light shutdown and loopback functions
Dimension (H*W*D)	45*170*245mm
Working environment	Working temperature: - 10 °C - 60 °C Storage temperature: - 40 °C-80°C Relative humidity: 5% - 95% no condensation
Power consumption	<36W

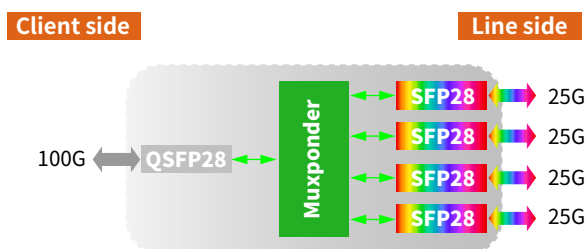
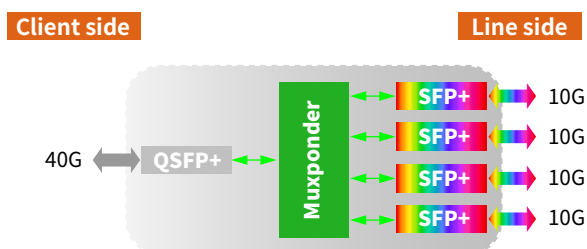
CDTrans-MOTU

MOTU can convert one 40G / 100G customer signal and four 10G / 25G line signals to each other, and convert each line side signal into four CWDM / DWDM standard wavelengths to cooperate with CWDM / DWDM combiner and splitter for wavelength division multiplexing transmission. It is the preferred scheme for medium and short distance high-capacity transmission and optical fiber resource multiplexing.



Product Highlights

- Support CWDM or DWDM transmission, wavelength conversion.
- Support multiple transmission distances: 25G on the line side can reach 40km without relay
- Support multi service access on 40G / 100G client side
- Support Web and CLI.
- Support manual shutdown laser.
- Support 3R function to improve signal quality and transmission performance.
- Support DDM signal monitoring and ALS.





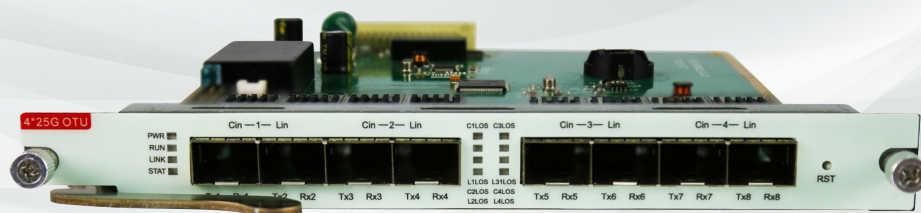
Product Description

Items	Description	
Model	CDTrans-MOTU40G	CDTrans-MOTU100G
Port	40G MUX OTU Client side: 1*QSFP+ gray, hot pluggable Line side: 4*SFP+ CWDM/DWDM, hot pluggable	100G MUX OTU Client side: 1*QSFP28 gray,hot pluggable Line side:4*SFP28 CWDM/DWDM, hot pluggable
Line mode	1 channel 40G / 100G client signal is transmitted by 4* 10 / 25 Gwavelengths	
Wavelength WDM	C-band 48/96 wavelengths	
Type of service	40GE, OTU3, OTU3e1, OTU3e2	100GE, OTU4.4
Occupy slot position	1 slots	
Network management function	CLI,WEB Optical module Los alarm Support DDM real-time optical port information monitoring Support no light shutdown	
Dimension (H*W*D)	22*170*245mm	
Working environment	Operating temperature: -10°C ~ 60°C Storage temperature: -40°C ~ 80°C Humidity: 5% ~ 95% without condensation	
Power consumption	<20W	

CDTrans-DOTU

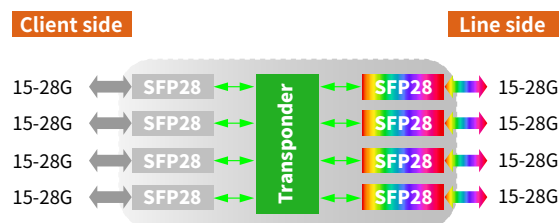
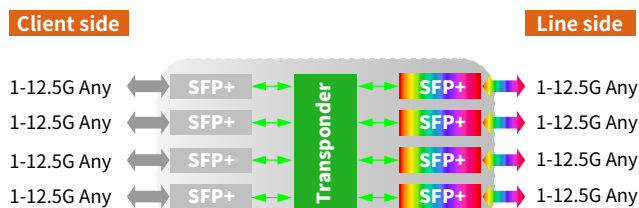
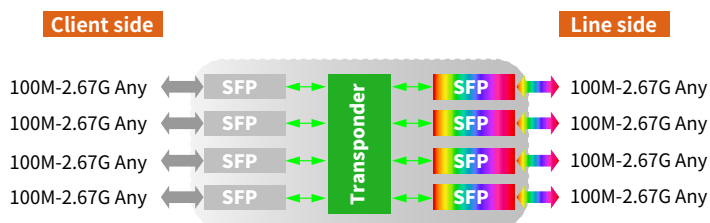
The DOTU can realize the mutual conversion between customer signals and line signals. Each line signal corresponds to a standard wavelength of CWDM/DWDM, which can be connected to a CWDM/DWDM multiplexer for wavelength division multiplexing transmission. It is the preferred scheme for low-cost medium and short distance transmission.

Among them, DOTU10G-M4H4 supports four arbitrary service accesses with 100M~12.5Gbps rates; DOTU25G--M4H4 supports four 15~32Gbps rates of any type of service access.



Product Highlights

- Support CWDM or DWDM, wavelength conversion.
- Support transmission distances of various specifications: supports 10G and the longest transmission is 80KM without relay.
- Support 4 bidirectional or 8 unidirectional 100M~12.5Gbps and 15-28 Gbps protocol service access at any rate, and support single-mode or multi-mode.
- Support Web and CLI.
- Support 3R function to improve signal quality and transmission performance.
- Support DDM signal monitoring, ALS and loopback.
- Support manual shutdown laser.

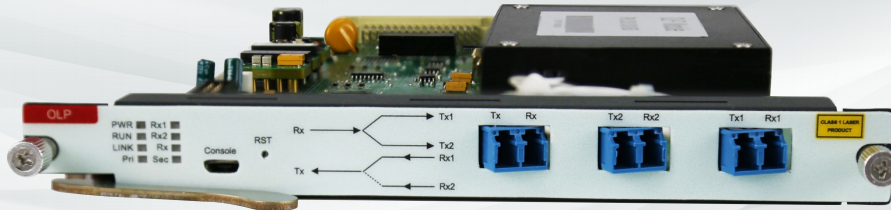


Product Description

Items	Description	
Model	DOTU10G-M4H4	DOTU25G-M4H4
Port	Client side: 4*SFP+ gray, hot pluggable Line side: 4*SFP+ CWDM/DWDM, hot pluggable	Client side: 4*SFP28 gray, hot pluggable Line side: 4*SFP28 CWDM/DWDM, hot pluggable
Work pattern	OEO relay	
Wavelength WDM	C-band 48/96 wavelengths	
Type of service	FE/GE/10GE,/2G/4G/8G/ 10G FC,CPRI1-8,STM1/4/16/ 64,OTU2/2e,OTU1f/OTU2f, OTU1/OTU1e	16G/32G FC,25GE,eCPRI,OTU4.4
Power consumption	<15W	<18W
Occupy slot position	1*slot	
Network management function	CLI,WEB Optical module Los alarm Support DDM real-time optical port information monitoring Support no light shutdown and loopback functions	
Line mode	4 channels of CWDM/DWDM standard wavelength optical signal	
Dimension (H*W*D)	22*170*245mm	
Working environment	Operating temperature: -10°C ~ 60°C Storage temperature: -40°C ~ 80°C Humidity: 5% ~ 95% without condensation	

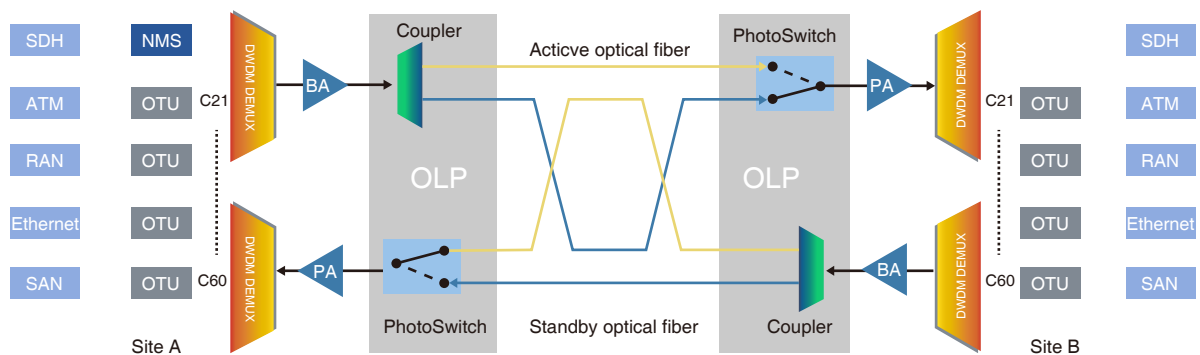
CDTrans-OLP

OLP board is a kind of protection system for optical line backup, which can realize 1 + 1 protection of the lines, and the switching time is less than 20ms. It can automatically identify the optical signal status of the main and standby systems and conduct instantaneous optical path switching, to ensure that the main optical cable can be switched to the standby optical cable in case of total resistance obstacle, to improve the communication service quality.



OLP quickly recovery of communication

In the process of OTN , when the main line has trouble, it automatically switches to the standby line to ensure that the fiber link is normal.



Product Highlights

- Support 1 + 1 protection .
- Optical power monitoring range: - 30dBm ~ + 25dbm.
- The switching time of optical path protection: $\leq$ 20ms.
- Real time monitoring of optical power
- Support web, CLI, local and remote control.
- Support automatic and forced working modes.

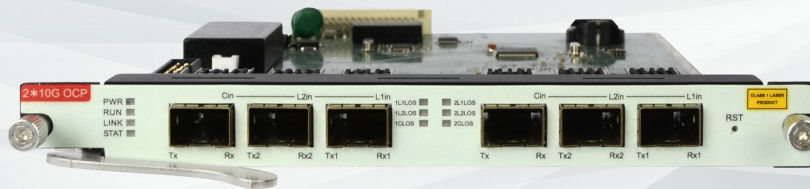
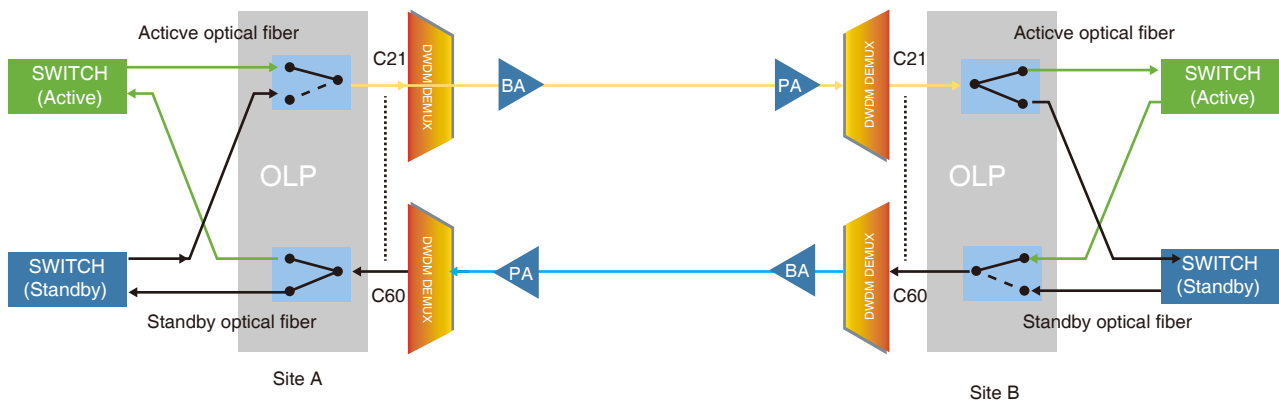
Product Description

Items	Description
Port	Client side: 1*LC Line side: 2*LC
Protection mode	C-band, 1+1, Switch time<20ms, Automatic and forced modes
Occupy slot position	1 slot
Network management function	CLI, WEB Optical Los alarm View working mode Protection mode configuration
Dimension (H*W*D)	22*170*245mm
Working environment	Operating temperature: -10°C ~ 60°C Humidity: 5% ~ 95% without condensation
Storage environment	Temperature: -40°C ~ 80°C
Power consumption	<10W

CDTrans-OCP

OCP10G board realizes the channel protection of two client signals. Each client signal adopts the 1 + 1 protection mode to back up the important links of client and improve the service quality. Each line signal corresponds to one WDM standard wavelength to access the WDM system for wavelength division multiplexing transmission, which is the preferred scheme for low-cost medium and short distance transmission of optical fiber resource optimization

The optical port adopts SFP + interface type. The client service supports 100M-12.5Gbps arbitrary rate signal access, including STM/1/4/16/64, 2/4/8/10G FC, FE/GE/10GE, CPRI1-8, OTU2/2e, OTU1f/OTU2f, OTU1/OTU1e. 3R processing is performed on the access signal to reduce jitter and improve signal transmission quality.



Product Highlights

- Support single/multi-mode optical channel protection and dual/single-fiber bidirectional protection.
- Support 1+1 protection.
- The switching time of optical path protection: $\leq 30\text{ms}$.
- Support web, CLI, local and remote control.
- Support automatic and forced working modes.
- Support DDM real-time information monitoring and ALS

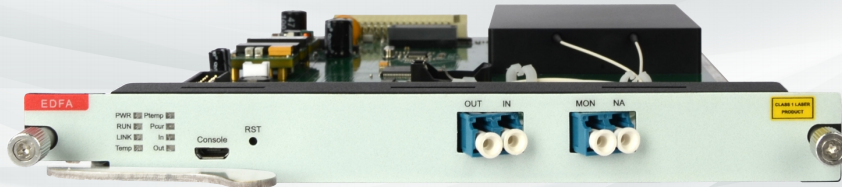
Product Description

Items	Description
Port	Client signal 2*SFP+ gray, hot pluggable
	Line signal 1*SFP+ DWDM for one service, hot pluggable
WDM Wavelength	1*WDM wavelength
Type of service	FE/GE/10GE,2G/4G/8G/10GFC
	CPRI1-8,STM1/4/16/64,OTU2/2e,OTU1f/OTU2f,OTU1/OTU1e
Protection mode	1+1,Switch time<20ms
Occupy slot position	1 slot
Network management function	CLI,WEB Optical module Los alarm Support DDM real-time optical port information monitoring Support ALS Protected Mode Configuration
Dimension (H*W*D)	22*170*245mm
Working environment	Temperature: -10°C ~ 60°C
	Humidity: 5% ~ 95% without condensation
Storage environment	Temperature: -40°C ~ 80°C
Power consumption	<15W

CDTrans-EDFA

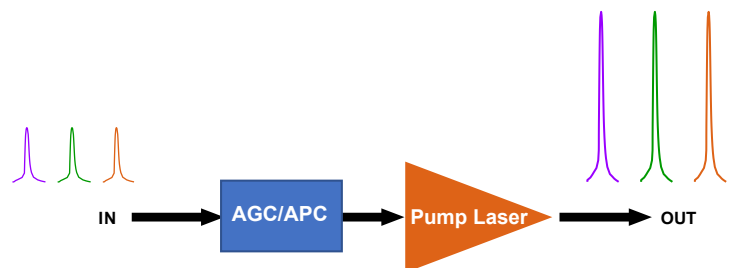
EDFA is a C-Band erbium-doped optical power amplifier with low noise and flat gain. The core device adopts a high-reliability Pump laser, adopts unique ATC and AGC circuit control, cooperates with professionally designed GFF and matched optical path design, so that the flatness and noise of EDFA are optimized, thus realizing APC and AGC functions.

EDFA is divided into the power amplifier, line amplifier and pre-amplifier.



Product Highlights

- Support optical signal amplification of C-band.
- Support the maximum saturated output power of +20dBm and the minimum input power of -35dBm.
- Support power amplification, line amplification and pre-amplifier.
- Support Web and CLI.
- Support AGC/APC working mode.
- Support optical monitoring port (MON)



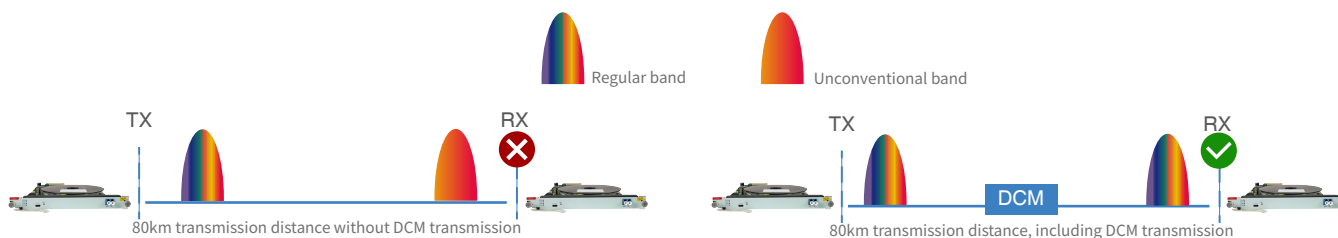
Product Description

Items	Description		
Model	CDTrans-BA20G22	CDTrans-LA20G22	CDTrans-PA20G32
Amplifier type	boost amplifier	line amplifier	preamplifier
Operating wavelength range	1528-1566nm	1528-1566nm	1528-1566nm
Input optical power range	-23dBm~12dBm	-30dBm~5dBm	-30dBm~5dBm
Output optical power range	-4dBm~20dBm	-11dBm~20dBm	-1dBm~20dBm
Adjustable gain range	19dB~25dB	19dB~25dB	29dB~35dB
Gain flatness	1.5dB		
Noise coefficient	5.5dB		
Polarization Dependent Gain	0.5dB		
Polarization mode dispersion	0.5ps		
Input return loss	45dB		
Output return loss	45dB		
Control mode	AGC (default), APC,ACC		
Port	Input, 1*LC; Output, 1*LC; Monitoring, 1*LC		
Network management function	CLI,WEB		
Dimension (H*W*D)	170*22*245 mm		
Working environment	Working temperature: -10°C ~ 60°C		
	Storage temperature: -40°C ~ 85°C		
	Humidity: 5% ~ 90% without condensation		
Power consumption	< 12W		

CDTrans-DCM

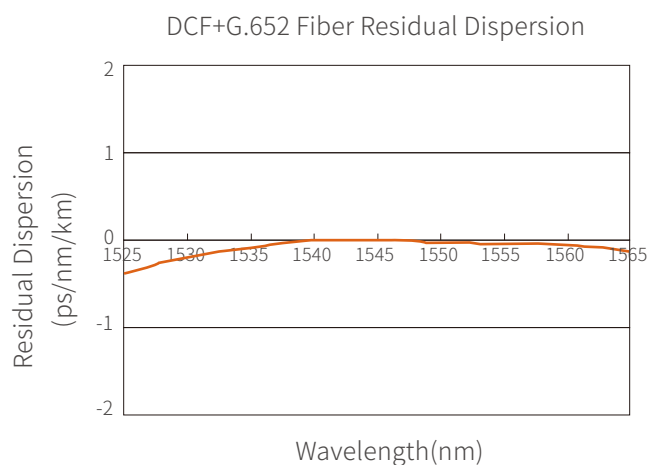
DCM board is DCF-based passive dispersion compensation module, which compensates the dispersion slope of standard G.652 single-mode fiber in the C-band, ensures the signal quality of high-speed signal after long-haul transmission, eliminates intersymbol interference, improves the transmission performance of the system, and realizes the transmission of long-haul, high-bandwidth and large-capacity signals.

The dispersion range of 1550nm wavelength can reach -2100 to -10ps/nm, and can provide products with special requirements for center wavelength and dispersion. When combined with EDFA, it provides a simple, reliable, cost-effective long-haul transmission solution for optical transmission, which makes the signal transmit further without regeneration.



Product Highlights

- C-band 100% slope compensation of G.652 optical fiber (standard value).
- Low insertion loss and low polarization mode dispersion.
- Wideband dispersion compensation of DWDM system.
- Different packages and interface types can be customized according to customer requirements.
- Meet the Telcordia GR-2854-CORE standard.
- Support Web and CLI.
- Meet the RoHS-6 (lead-free).





Product Description

Items	Description					
Slot	1 Slot			2 Slots		
Equivalent G.652 Compensation length	20KM	40KM	60KM	80KM	100KM	120KM
1545nm wavelength dispersion (ps/nm)	-340 ± 10	-670 ± 20	-1000 ± 30	-1340 ± 40	-1670 ± 50	-2040 ± 60
Insertion loss	$\leq 2.5\text{dB}$	$\leq 3.2\text{dB}$	$\leq 5.5\text{dB}$	$\leq 6.5\text{dB}$	$\leq 7.6\text{dB}$	$\leq 9.8\text{dB}$
Polarization mode dispersion	$\leq 0.3\text{ps}$	$\leq 0.4\text{ps}$	$\leq 0.7\text{ps}$	$\leq 0.8\text{ps}$	$\leq 0.9\text{ps}$	$\leq 1.1\text{ps}$
Port	2*LC					
Slots	1/2 slots					
Compensation mode	Fixed compensation					
Relative dispersion slope of 1545nm wavelength	$0.004 \pm 20\% \text{nm}^{-1}$					
Polarization loss	$\leq 0.1\text{dB}$					
Reflection	-27dB					
Maximum allowable input power	$+23\text{dBm}$					
Brillouin scattering threshold	$\geq 6\text{dBm}$					
Nonlinear system	$\leq 1.4 \times 10^{-9} \text{ n}^2/\text{Aeff}$					
Effective area	$\geq 20\text{Aeff}$					
Network management function	CLI,WEB					
Dimension(H*W*D)	22*170*245 mm/45*170*245mm					
Working environment	Operating temperature: $-10^\circ\text{C} \sim 60^\circ\text{C}$ Storage temperature: $-40^\circ\text{C} \sim 80^\circ\text{C}$ Humidity: 5% ~ 95% without condensation					
MTBF	$> 100,000$ hours					
Power consumption	$< 10\text{W}$					

CDTrans-MUX/DEMUX

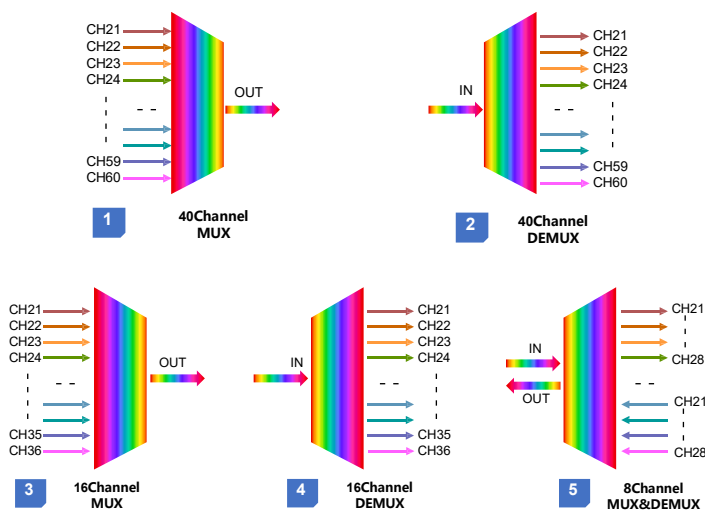
Based on TFF and AAWG technology, MUX/DEMUX making full use of the low-loss band of optical fiber, the channel of CWDM/DWDM can be combined and demultiplexed, which greatly saves the optical fiber resources, and can flexibly change the network configuration according to customers' requirements.

MUX/DEMUX is often used for long-haul transmission. DWDM system with a frequency interval of 100 GHz supports a smooth upgrade to 48 waves, and DWDM system with frequency interval of 50 GHz supports a smooth upgrade to 96 waves, which has a higher spectrum utilization rate and saves frequency band resources. CWDM system supports a smooth upgrade to 18 waves.



Product Highlights

- Supports up to 96 waves and can be customized.
- Support online upgrade and capacity expansion, simple maintenance and convenient operation.
- Support CWDM and DWDM (100GHz or 50GHz).
- Support single fiber unidirectional, single fiber bidirectional, double fiber bidirectional, etc..
- Low insertion loss, high channel isolation, high reliability and stability, meeting GR-1221 standard.
- Supports Web and CLI. Support local and remote control.





Product Description

Items	Description
Wavelength range	CWDM: 1271nm-1611nm DWDM: C-Band (100GHZ/75GHZ/50GHZ)
Channel spacing	CWDM: 20nm DWDM:0.8nm/0.6nm/0.4nm
Channel insertion loss	4CH: <1.5dB, 6CH:<2.0dB, 8CH:<3.2dB, 12CH:<3.8dB, 16CH:<4.2dB (DWDM) 40CH:<6.0dB,48CH:<6.0dB, 80CH:<6.5.0dB, 96CH:<7.5dB
Center wavelength accuracy	$\pm 0.05\text{nm}$
Isolation of adjacent channels	$\geq 25\text{dB}$
Non-adjacent channel isolation	$\geq 30\text{dB}$
Polarization dependent loss	$\leq 0.5\text{dB}$
Maximum input power	>300mw
Return loss	$\geq 45\text{dB}$
Polarization mode dispersion	$\leq 0.10\text{ps}$
Slot	1 slot (below 16 waves), 2 slots (40-48 waves), 4 slots (80-96 waves)
Network management function	CLI,WEB
Dimension (H*W*D)	170*22*245 mm/45*170*245mm/89*170*245mm
Safety	FCC, UL, CE, TUV, CSA
MTBF	> 100,000 hours

2. Company Profile



Shenzhen C-Data Technology Co., Ltd., founded in 2009, is the world's leading supplier of telecommunication products and solutions. We provide telecommunication products and solutions for global communication carriers, ISPs, MSOs, Data centers, Government, etc., and are committed to realizing "Accessing the world with Cloud-Data".

C-Data's business layout is global, which has more than 10 subsidiaries. We have solutions such as Wavelength Division Multiplexing, FTTX, Wireless Access, Private Cloud Storage, and Smart Software Platform, covering over 100 countries, providing high-quality network products and smart platform services for global users.

R&D Personnel

Over **30%**

Patent

120+ items

Subsidiary

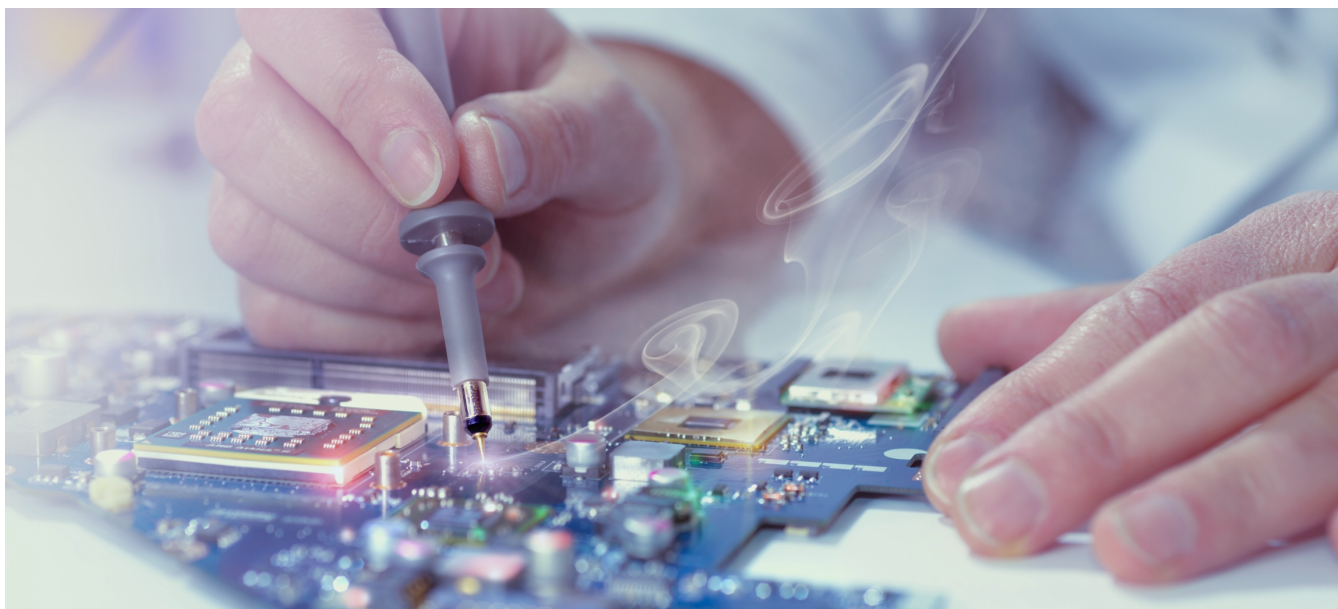
10+

Business coverage

100+ countries

Focus On R&D, Respond Quickly To Market

The R & D personnel account for more than 30% of the total employees. The core members all have over 20 years' experience, they can quickly respond to market demand.



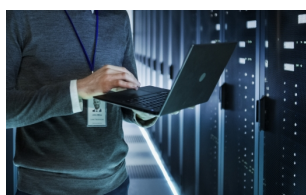
Quality Management

C-Data has a standardized development system. From market demand to product launch, we will go through the strict review of TR1-TR8 and 6 tests of components and the whole machine to ensure the stability and reliability of the products.

• 8 major tests



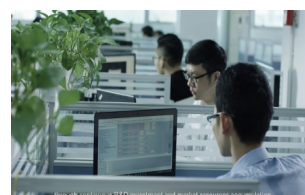
performance parameter
index test



on-site environment
simulation test



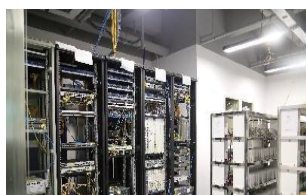
high and low
temperature test



software test



stability test



reliability test



environment test



transportation test

• TR1-TR6 review



Certificates

C-Data is a national high-tech enterprise integrating R&D and marketing. We have a modern production base of 80,000 square meters and have many years of production management experience. We have obtained the ISO9001, ISO14001 certification, etc.



Efficient Service

C-Data has a professional customer service team, providing users with pre-sales technical support, scheme design, product installation and commissioning, training guidance, after-sales maintenance, etc.



All-day service
7*24H service



Quick response
Respond to customers within 10 minutes



Super VIP experience
Communicate with a senior technical manager



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