3C-LINK®
Creative Clever Cool

3C-OTNS8600 48*10G Packet Optical Solution

OTN transmission and switching platforms utilizing WDM communications for video, SAN, and data center backups with high-availability

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OTNS Platform

Scalable Optical Transport

3C-OTNS 8600P

Optical Services Transport Platform

Applications

- *FTTC*
- *FTTB*
- *WAN Networks*
- *SDH Networks*
- *CATV Networks*
- *Telecom*
- *ISP*

Features

- Cost effective
- Compact platform
- Flexible Deployment
- SNMP Funcation
- High Reliability
- High Stability
- Strong managment

Product Highlights

DWDM Integrated on Switch Line card

* High density DWDM solution for Cloud Data Centers
* Cost and performance optimized for Data Center Interconnect (DCI) to transport massive volumes of traffic through metro or long haul networks.
* Ethernet over DWDM: Transparent to Layer2 and Layer3 applications

Wire-speed Encryption

* IEEE 802.1AE MACsec encryption
* 10G Wire Speed encryption on every port Metro and Long Haul Applications
* Full system 48* 10G capacity(480G)
* 10G, 8G, 2.5G,1G Compatible
* 100km+ amplified reach

Stong Managment

* Web Managment
* SNMP Management

Proven Architecture and technology

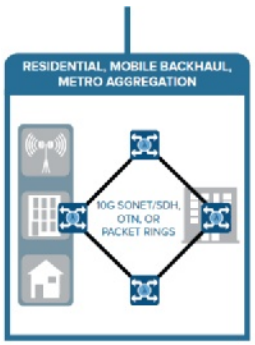
* Utilizes industry adopted and deployed 10G
* Best in class switch silicon
* Proven to be the most reliable

Overview

The phenomenal growth in demand for bandwidth, driven by mobile, videostreaming and cloud applications, is driving the need for connecting severalgeographically dispersed data centers to maintain seamless content delivery andprovide application agility. To keep up with the global trend of price reduction forbandwidth, interconnecting these geographically dispersed data centers has to beoperationally simple and economically efficient. Traditional transport infrastructure does not meet the density challenge and is not economically viable for bulk data center interconnect. !

The 3C-LINK 10G DWDM solution is integrated to a OTNS 8600P Series line card offeringhigh-density with un-compromised performance at an efficient cost point. Itutilizes proven coherent optical technology to enable simple, reliable and scalabledata center interconnect solutions for both metro and long haul applications ! One of the major challenges for data center operators is to protect the data frompassive wire tapping, intrusion and other attacks when it leaves the data centerpremise. Most of the existing encryption solutions require additional systems thatare expensive to deploy and manage.

The 3C-LINK launched the OTNS8600P series optical transmission network system, which creatively extends the expansion of the WDM technology from the backbone networks to the metro area or access layer and provides a reliable, flexible and efficient high bandwidth carrying solution for the operators, Broadcast and TV, IDC, finance, government, cloud, massive data and other industries.



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INCREASING BANDWIDTH DEMAND

3C-OTNS8600P withWavelength Division Multiplexing (WDM) features offer a cost-efficient way to expand fiber capacity in access, metro and regional networks using Dense Wavelength Division Multiplexing (DWDM). The WDM nodes help keep start-up costs at a minimum and at the same time offer a carrier-class solution with extensive OAM and performance monitoring capabilities for easy and reliable operation and maintenance.

LONG DISTANCES

DWDM versions of multiplexers can be applied and the line signal amplified using cost-efficient booster and pre-amp lifiers. Using this design, 3C-OTNS8600 can reach up to 100 km on a single span with up to 48G x 10 Gbps DWDM channels

EFFICIENT TRANSPORT

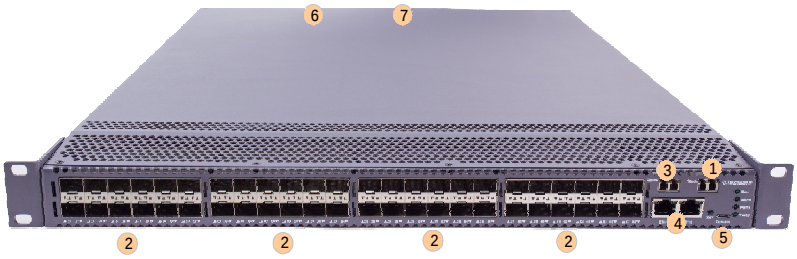
To minimize transport cost and optimize effi ciency in all network areas, the modular architecture of the 3C-OTNS8600P comprises a family of hot-swappable modules to meet network application requirements and make convergence practical.

EASY APPLICATION

The 3C-OTNS8600P Support 48pcs 10G SFP+ Slots, they are equal 48CH independent 48CH via one pair fiber. Since we combine the DWDM, OEO, EDFA technology inside. So for enduser side. You can use 10G SFP+ SR / LR/BI-DI Plug our 3C-OTNS8600P Ssystem can work.

END-TO-END MANAGEMENT

The 3C-OTNS are true carrier-class products that offer full end-to-end management for both traffic provisioning as well as Fault and Performance Management. As both client and line signals are monitored, it is easy to track failures or degradations of the network.



3C-OTNS8600P ,1U Chassis

1 : Main Cable interface
2 : 48*10G SFP+ interface
3 : Uplink interface
4 : Management UTP interface
5 : Console interface
6 : Power* 2 Card
7 : FAN* 3 Card

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Applications

- *100G Core Data*
- *FTTB*
- *WAN Networks*
- *SDH Networks*
- *CATV Networks*
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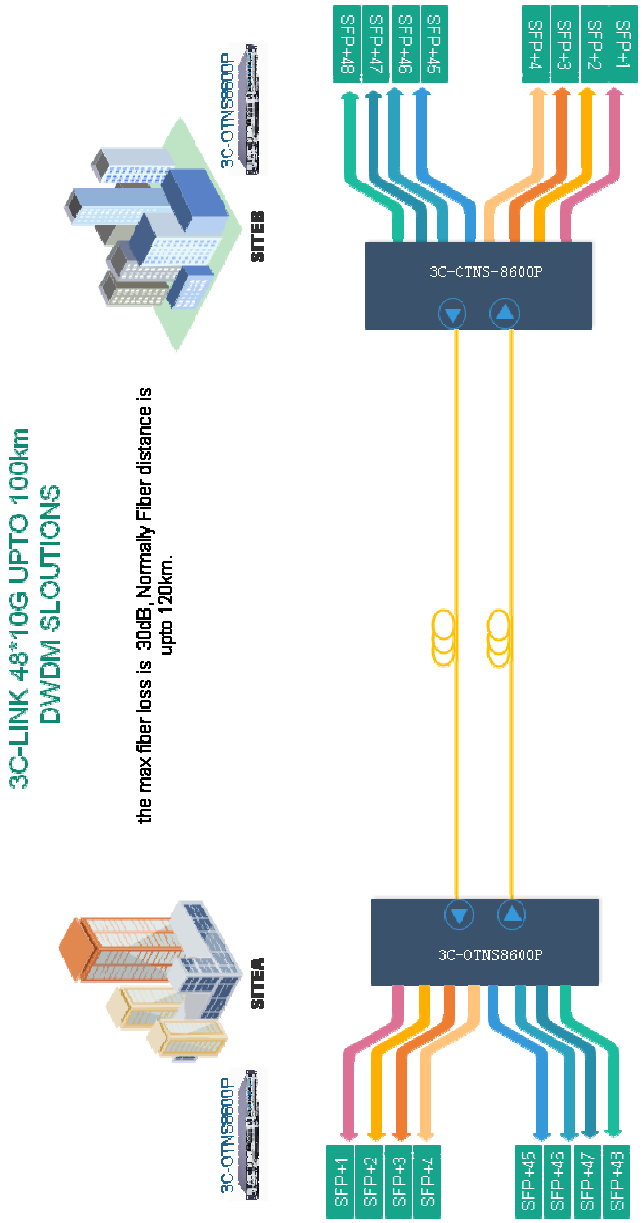
APPLICATION



Remark: 3C-OTNS8600P with 48pcs SFP+ Slots, No1 to No48
You can plug normal 10G-SR/LR/BI-DI SFP module into it. And use patch cord link the each other 10G enduser device.

3C-OTNS8600P normal inside use 100G SFP+ OEO module, the max support 48CH, if you need 96CH*10G, we can use 50GHZ SFP+ OEO Module. So that can cascade 2pcs in one side.

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3C-OTNS8600P

With the rapid development of information and automation in various industries, large bandwidth services emerge in endlessly, and the trend of centralized and unified management intensifies, the capacity of transmission pipeline as the basis must be upgraded; simple network planning, rapid business deployment, smooth bandwidth upgrade, and convenient maintenance operation are the enterprise letter of industry customer construction.

Based on photonic integration technology, 3C-LINKOPTO Co., Ltd. independently developed OTNS8600 P special all-optical convergence equipment, with the transmission capacity of 80G, 160G, 400G, 480G to build a network in batches, eliminating the complex optical layer configuration, reducing the tedious optical fiber connection, such as switchboard type one-on-one communication, fast network construction, easy maintenance. Perfect matching of industry customers to transport demand within the city, to the greatest extent, to solve the customer's demands.

Features

* 1U rack-mounted equipment, ultra-high integration design, comparing with traditional solutions, cabinet occupancy space savings of 90%.
*Single-channel access rate up to 10Gbit/s, and adaptive 10G or below rate all types of service access (such as: FE/GE/10GE LAN, 10GE WAN, STM-1~64, etc.)
* A single device supports a maximum transmission capacity of 480G. It can flexibly select 80G/160G/400G/480G devices according to business requirements, and supports stacking to expand the transmission capacity.
* Business ports are fully physically isolated and transparent to enhance network security.
* The line side supports single core and double core to maximize cable savings.
* To support the transmission of 80km within the metropolitan area, and achieve further distance by increasing the optical relay station.
* It is possible to realize SNMP management in the whole network by taking in the monitoring channel and connecting the optical path.
* Support optical cable side 1+1 line protection, automatically select transmission routes, and improve network reliability.
* Dual server power configuration, hot plug and use, Load Share mode 1+1 hot backup.
* The network is simple, does not change the original network topology, does not have complex optical layer design, only needs to choose the equipment type according to the attenuation or the kilometer number.
* According to the site one box shipment, the power supply is free, plug and play; no jumping fiber, no artificial intervention.
* The world-wide First launched a new solution based on photonic integration technology

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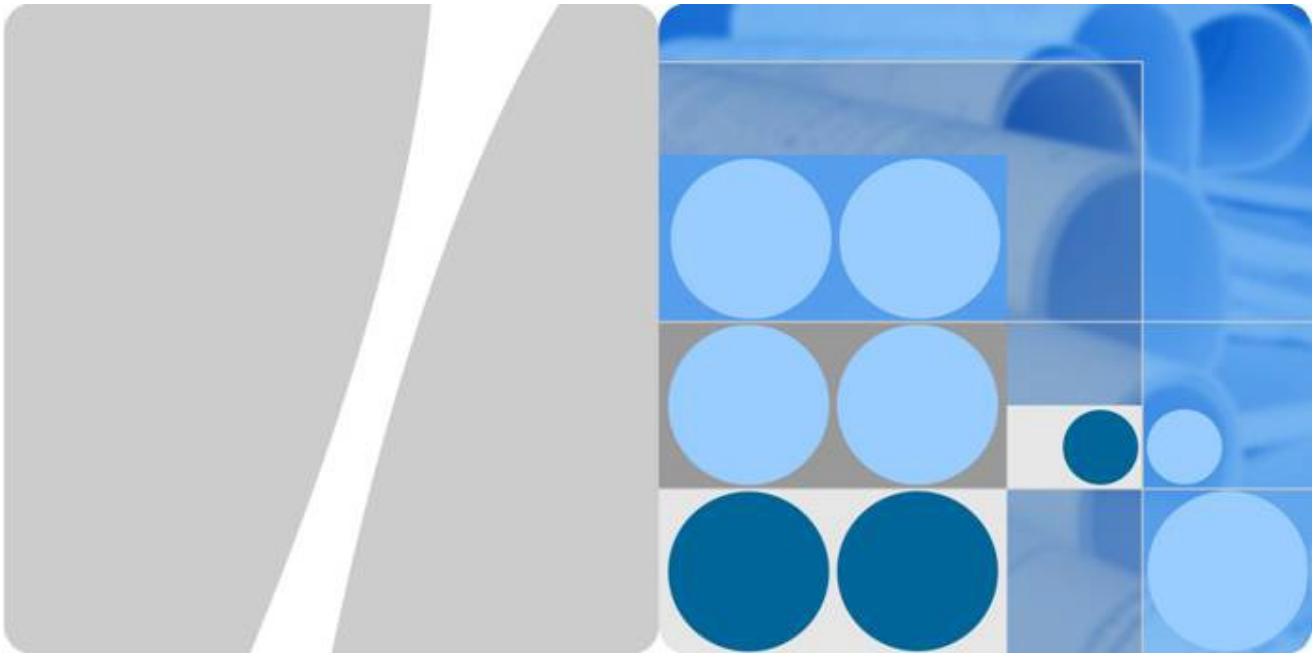

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