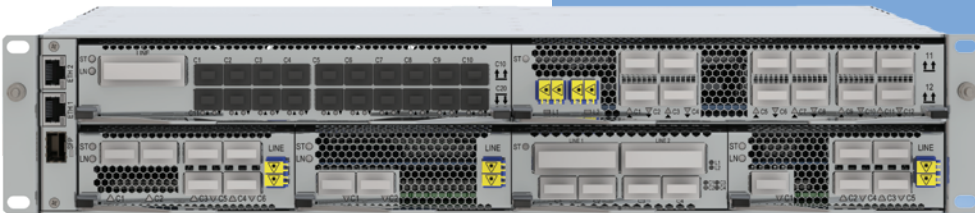


## DWDM-system DCI V2

Compact DWDM platform  
for data centers with high bandwidth  
and transmission range

2U | 6.4T

flexible capacity scalability  
up to 600G per wavelength



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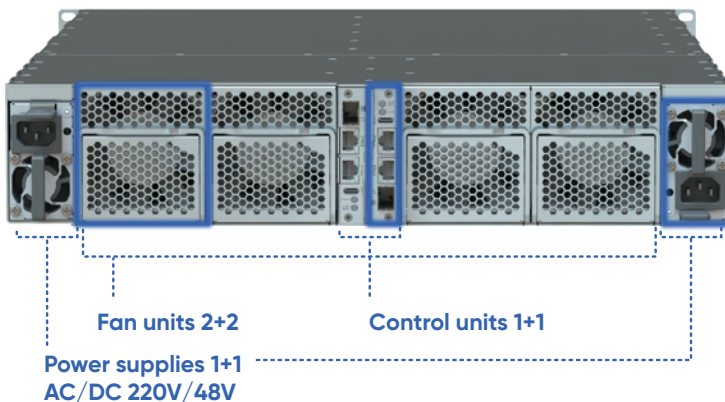
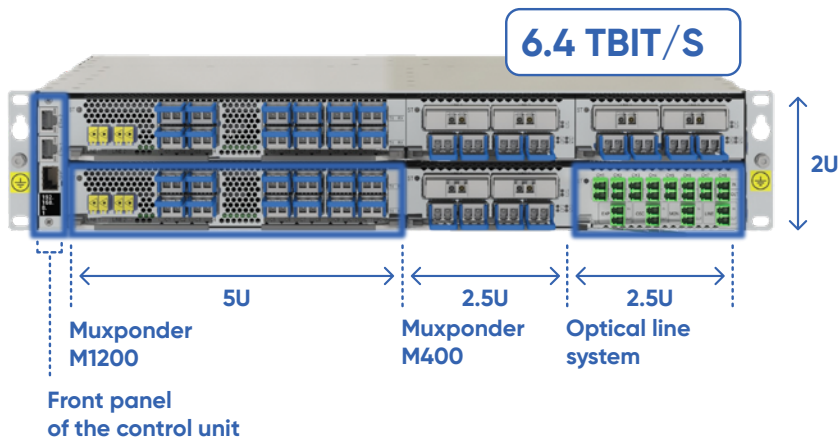
# DATA CENTER SOLUTIONS

The rapid growth of cloud services, the introduction of 5G networks, the active development of the Internet of things (IoT) and virtual reality (VR) require a huge bandwidth of optical channels in transport networks. The capacity of domestic data centers in 2023 increased by 21% to 70.3 thousand rack space. The largest data center providers continue to increase infrastructure capacity following high technological standards to improve the level of services.

The highly integrated 2U platform combines channel-forming equipment and an optical line system. It enables operators to leverage a compact "out-of-the-box" solution with high throughput and flexible network scaling.

## INTENDED USE

- ✓ interconnection of data centers by high-speed channels, including industry and cloud services
- ✓ metro and backbone transport networks where compact footprint and high system efficiency are required
- ✓ providing the access/aggregation at the last mile, including for 100GE, 400GE services



Line card

Advantages

**M1200**

**Muxponder 1200G (2 x 600G)**  
Width 5U

**High capacity, scalability,  
support for multi-service clients**



**M400**

**Muxponder 400G**  
Width 2.5U

**Cost-effective solution for aggregation  
and transmission of high-speed clients**



**M200**

**Muxponder 200G**  
Width 5U

**Cost-effective solution for aggregation  
and transmission of low-speed clients,  
including 10G services**



in developing

Optical card

Advantages

**OLS**

**OLS Optical line system**  
Width 2.5U

**Implementation of optical level  
functionality in one unit makes possible  
to build a DWDM system using a pair  
of DCI V2 chassis**



**Scaling the system is possible by installing  
optics in other lines of T8 equipment**

Line interfaces	Client interfaces
<p><b>2 x LC DWDM</b></p> <p>Flexible transfer rate: 2 x 600G/500G/400G/ 300G/200G/100G</p>	<p><b>12 x QSFP28</b></p> <p>up to 12 x 100GE/FlexE/OTU4</p>
<p><b>2 x CFP2</b></p> <p>2 x 100G/200G 1 x 400G</p>	<p><b>4 x QSFP28</b></p> <p>up to 2 x (2 x 100GE/OTU4) up to 4 x 100GE</p>
<p><b>1 x CFP2</b></p> <p>1 x 200G</p>	<p><b>20 x SFP + /SFP28</b></p> <p>up to 20 x 10GE/OTU2/STM64/8GFC/10GFC up to 12 x 16GFC up to 6 x 32GFC</p>

### Composition of optical card

- DWDM MUX/DEMUX  
(multiplexer for 8 channels)
- 2 EDFA amplifiers (Pre-Amp + Boost)
- CWDM MUX/DEMUX  
(service channel or OTDR signal add/drop multiplexer)

# SYSTEM ADVANTAGES

2U | 6.4T

## HIGH CHASSIS CAPACITY

Provided with 2 x 400 Gbit/s line cards with flexible tune (speed & distance balance)



## ONE PLATFORM FOR ANY DISTANCE

Line cards and OLS (optical amplifiers, multiplexers and other optical units) are combined in one chassis



## COMPACT MODULAR ARCHITECTURE

88 mm (H) x 481 mm (W) x 710 mm (D)

8 removable slot devices (2.5U width) or 4 removable slot devices (5U width) with hot-swap capability



## FLEXIBLE SCALABILITY OF CAPACITY UP TO 600G PER WAVELENGTH

A wide range of line cards with the ability to configure the capacity of line interfaces from 100 Gbit/s to 600 Gbit/s



## EFFICIENT COOLING

Cooling system designed for data center infrastructure



## AUTOMATION AND MANAGEMENT

Integration into NMS Titan

Interfaces for interaction with external customer systems



## HIGH ENERGY EFFICIENCY

0.2 W per Gbit/s



## RELIABILITY

Redundancy of control units 1+1, power units 1+1, fan units 2+2



## MULTISERVICE

Support for multi-service clients from 10 to 400G

## T8 | DWDM SYSTEMS

T8 is manufacturer and developer  
of DWDM telecommunications equipment  
& solutions for optical communication networks

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