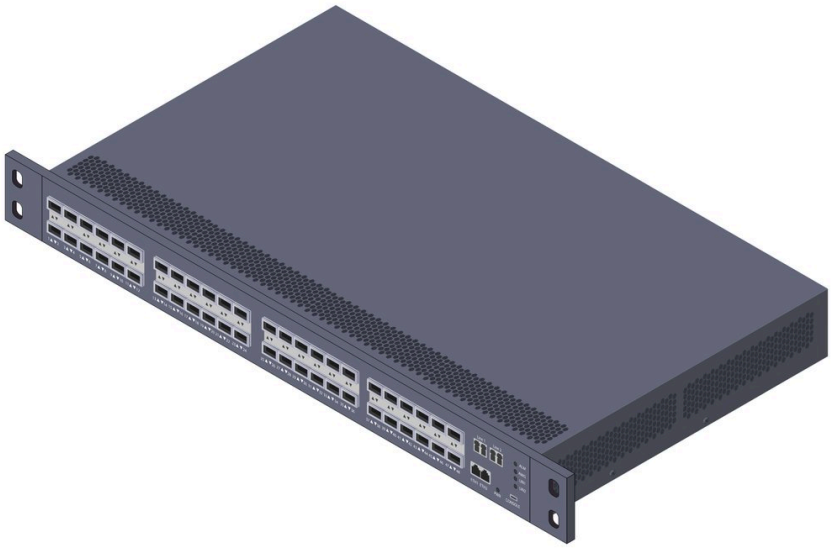
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OTN SYSTEMS WDM PLATFORMS

10G Integrated WDM Device

The 10G Integrated WDM Device is a box-type, high-density DCI transport platform for data centre interconnection. A single 1U unit delivers up to 480Gbps (48×10G) of capacity, scaling to 960Gbps per fibre pair through device stacking. High-density optoelectronic integration avoids complex patch-fibre cabling and switch-style connections, forming an end-to-end wavelength-division link with a simple, plug-and-play management model, well suited to data-centre rooms and metro DCI bearer networks.



HIGHLIGHTS

High-density 1U box

Stackable box-type form factor, no rack space wasted, easy to relocate.

480Gbps per device

48×10G in 1U, extendable to 960Gbps per fibre pair by stacking two units.

Mixed service transport

Transparent FE/GE/10GE transmission, with service interfaces and counts customisable to order.

Isolated, secure ports

No complex optical/electrical crossover; each service port is physically isolated for network security.

Drop-in network integration

No change to existing topology or optical layer design, just select the model for the required span/attenuation.

1+1 line protection

Automatic route selection on the fibre side for network reliability.

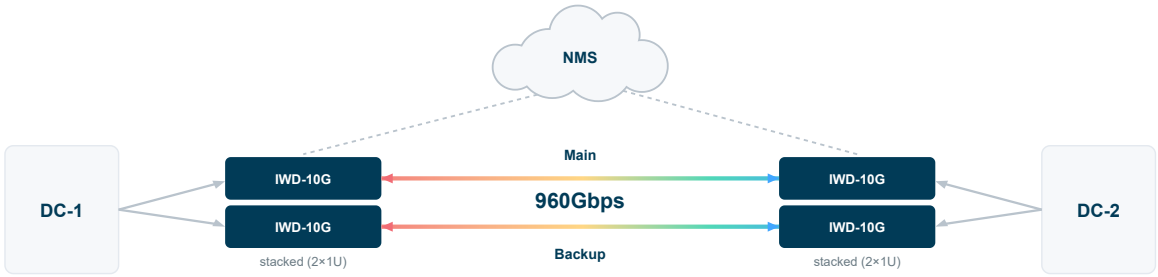
Zero-touch deployment

Delivered pre-configured, power-up free, plug-and-play, with no manual fibre patching.

In-band SNMP management

In-band monitoring channel carries whole-network SNMP management over the optical path itself.

APPLICATION SCENARIO



Two stacked units per site combine Main and Backup fibres into a single 960Gbps protected link, managed in-band via NMS.

FORMAT

1U

SPECIFICATIONS

Capacity & Ports	
Maximum Capacity per Device	480Gbps (48×10G), 1RU
Maximum Capacity per Fibre	960Gbps, via 2×1RU device stacking
Maximum Rate per Port	10Gbit/s
Service Port Type	100M–10G SFP optical port (customisable)
Maximum Ports per Device	48×SFP optical ports (customisable)
Supported Service Types	FE, GE, 10GE (per service port type)
Protection & Management	
Network-Level Protection	Line-side 1+1 protection with automatic route selection
Device-Level Protection	Power supply 1+1 hot backup (two-unit configurations) · 4× fan hot backup
Management Style	Web GUI · network management system (in-band SNMP)
Power & Mechanical	
Device Size	1U: 44mm (H) × 442mm (W) × 600mm (D)
Installation	19" server cabinet
Power Supply	1 or 2 hot-swappable units, 1+1 hot backup with load sharing · AC 90–260V · DC −36 to −72V · high-voltage DC optional
Heat Dissipation	Front and rear airflow, 4× hot-swappable fan units
Power Consumption	<400W (full load)
Operating Temperature	−5°C–50°C (typical)
Operating Humidity	5%–95%, non-condensing

Storage Temperature	–40°C–85°C

ORDERING INFORMATION

NAME	10G Integrated WDM Device
DESCRIPTION	10G Integrated WDM Device, box-type, high-density 1U DCI transport platform. 48x SFP ports (100M-10G), 480Gbps per device, scaling to 960Gbps per fibre via device stacking. Transparent FE/GE/10GE service transport with physically isolated ports, 1+1 line protection with automatic route selection, in-band SNMP management, plug-and-play zero-touch deployment, hot-swappable AC/DC power, one or two units (1+1 redundant with two).
PART NUMBER	**WDM-IWD-10G-{PSU}-1U**

{PSU}

CODE	MEANING
DC	One DC power supply unit
AC	One AC power supply unit
AD	One DC + one AC unit, mixed
2D	Two DC units, 1+1 redundant
2A	Two AC units, 1+1 redundant

Required. Two units (1+1) are recommended.

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