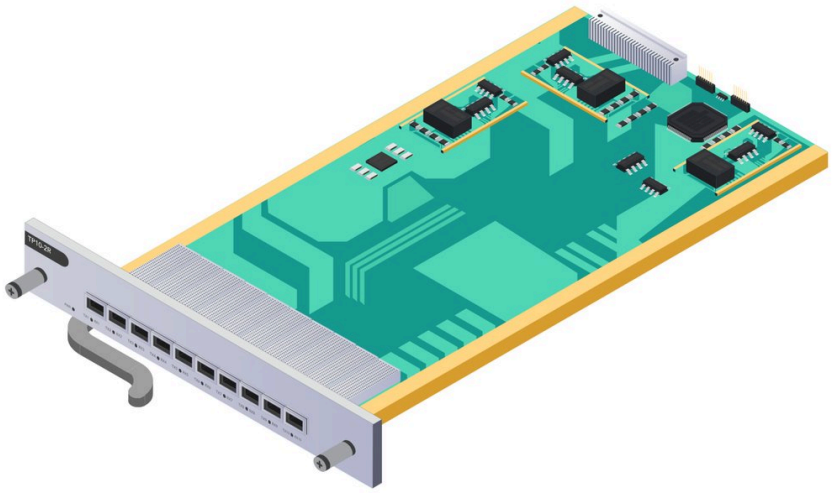
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OTN SYSTEMS WDM PLATFORMS

42M-11.3G Universal 2R Transponder (5-Channel) for WDM Chassis

On this universal multi-service transponder, five independent channels each convert virtually any client service between 42 Mbps and 11.3 Gbps, Ethernet, Fibre Channel, SDH/STM, OTU1/OTU2/OTU2e or CPRI, onto a matching 10G WDM line wavelength, and perform the reverse conversion back to the client. The same ten SFP+ ports can also be configured for line-to-line 2R relay regeneration using CDR-equipped WDM optical modules, refreshing signals without a client-side hop. The single-slot card fits across the OTN WDM chassis range.



HIGHLIGHTS

Universal multi-rate transponder

Five independent channels each carry virtually any service from 42 Mbps up to 11.3 Gbps, Ethernet, Fibre Channel, SDH/STM, OTU1/OTU2/OTU2e or CPRI, with no format restriction.

Two operating modes, one card

Runs as a wavelength converter between client and WDM line, or, using the same SFP+ slots, as a line-to-line 2R relay/regenerator.

CDR-based 2R regeneration

CDR-equipped WDM optical modules re-amplify and re-shape each line signal for cleaner long-haul transport.

Full WDM wavelength coverage

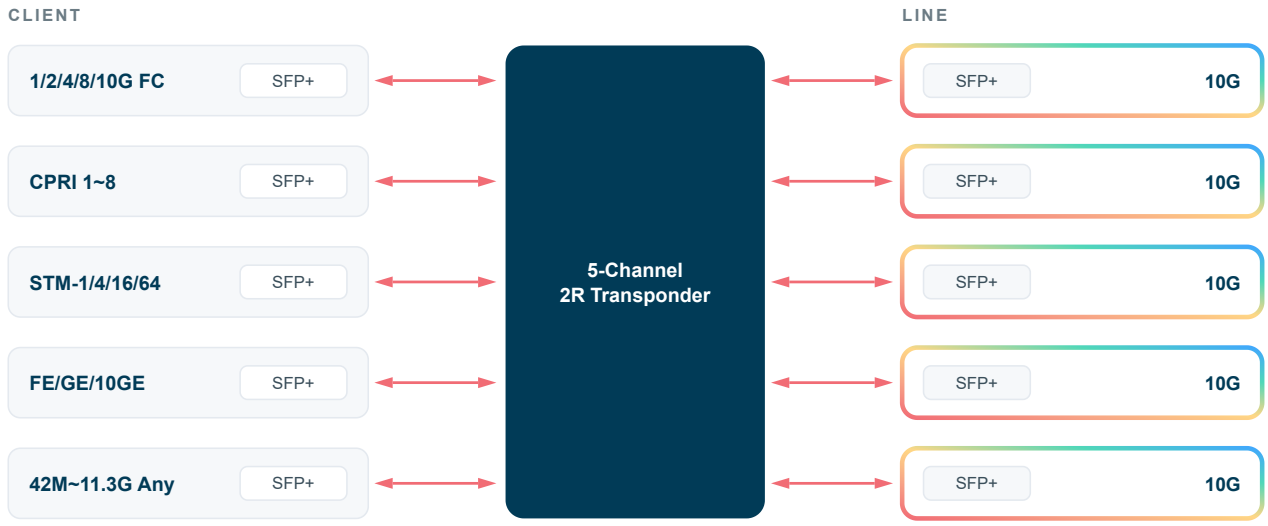
Line-side ports support CWDM 18-wave or DWDM 96-wave @50GHz grids via CDR-equipped WDM optical modules.

Compact and power-efficient

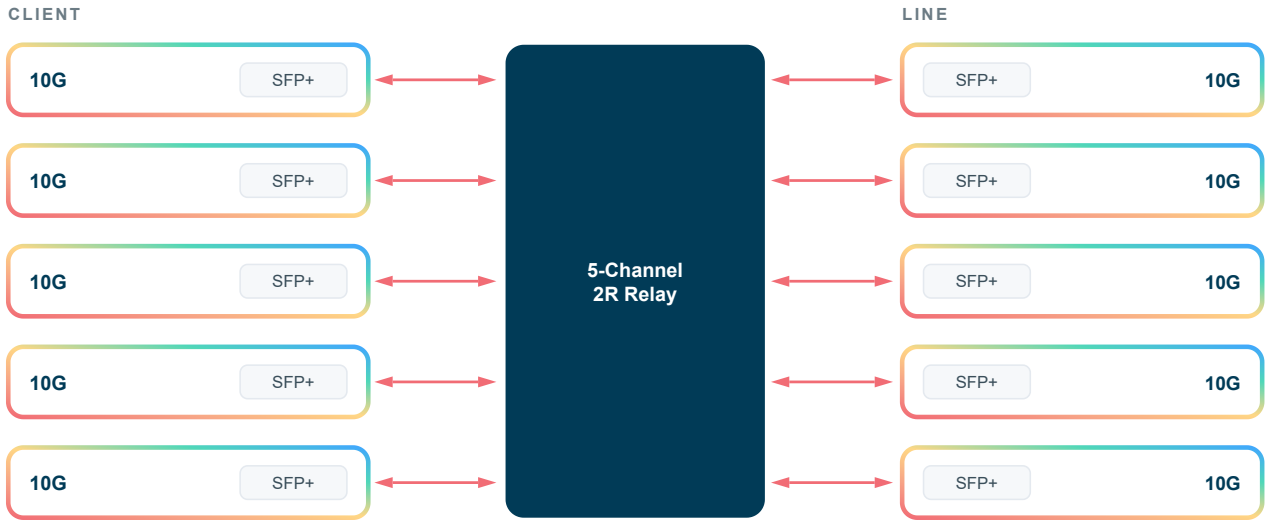
Occupies a single slot across the full OTN WDM chassis range, drawing just 20 W with optical modules fitted.

FUNCTIONAL STRUCTURE

Line mode (wavelength conversion)



Relay mode (2R line-to-line regeneration)



FRONT PANEL



FORMAT

CARD FOR WDM CHASSIS 1 SLOT

SPECIFICATIONS

CLIENT SIDE	
Interfaces	5 × SFP+, pluggable
Supported Services	FE, GE, 10GE · 1/2/4/8/10G FC · STM-1/4/16/64 · OTU1/OTU2/OTU2e · CPRI-1~8
Rate Range	42 Mbps to 11.3 Gbps per channel, any service type
LINE SIDE	
Interfaces	5 × SFP+, pluggable (WDM optical modules with CDR, 2R)
Wavelength Grid	CWDM 18-wave or DWDM 96-wave @ 50 GHz
OPERATING MODES	
Line Mode (Wavelength Conversion)	Converts each client service to a matching 10G WDM line wavelength, and back
Relay Mode (2R Regeneration)	Re-amplifies and re-shapes line signals end-to-end via CDR-equipped modules, without client-side conversion
OAM & MONITORING	
ALS	Automatic laser shutdown / restart on loss of input signal
Performance Monitoring	Optical-module temperature, current, voltage, optical power
MECHANICAL & POWER	
Slots Occupied	1 (compatible with all OTN WDM chassis)
Maximum Power Consumption	20 W (with optical module)

ORDERING INFORMATION

NAME	42M-11.3G Universal 2R Transponder (5-Channel) for WDM Chassis
DESCRIPTION	Universal 2R transponder, 1 slot. Five independent 42M-11.3G channels (Ethernet, Fibre Channel, STM, OTU1/OTU2/OTU2e, CPRI) convert to matching 10G WDM line wavelengths, or 2R relay-regenerate line-to-line via CDR-equipped modules; 10x SFP+ ports total.
PART NUMBER	**WDM-TP-5x10G-5x10G-2R-1S**

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