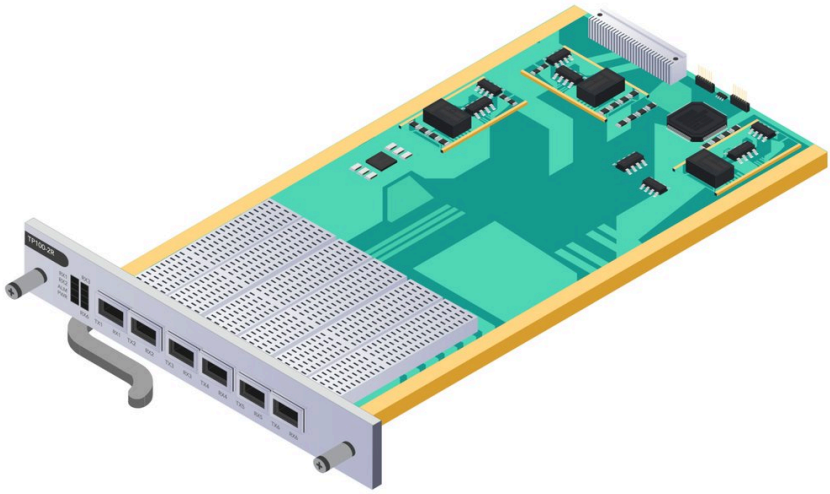
nex·gen

OTN SYSTEMS WDM PLATFORMS

40G/100G OEO 2R Regenerator (3-Channel) for WDM Chassis

This 2R optical regenerator board is built around a high-performance clock-and-data-recovery (CDR) chipset and re-amplifies and re-shapes up to three independent 40G or 100G optical channels end to end, cleaning up signal quality without any rate or format conversion. Each channel uses a pair of pluggable QSFP+/QSFP28 ports, for six ports total on a single-slot card that fits across the OTN WDM chassis range.



HIGHLIGHTS

True 2R regeneration

On-board CDR chips re-amplify and re-shape each channel, restoring signal quality over long or noisy spans without converting rate or wavelength.

Three independent channels

Regenerates up to three 40G or three 100G optical signals in parallel, each channel fully independent of the others.

Simple pluggable interfaces

Six QSFP+/QSFP28 ports (two per channel) accept standard pluggable optics, no proprietary modules required.

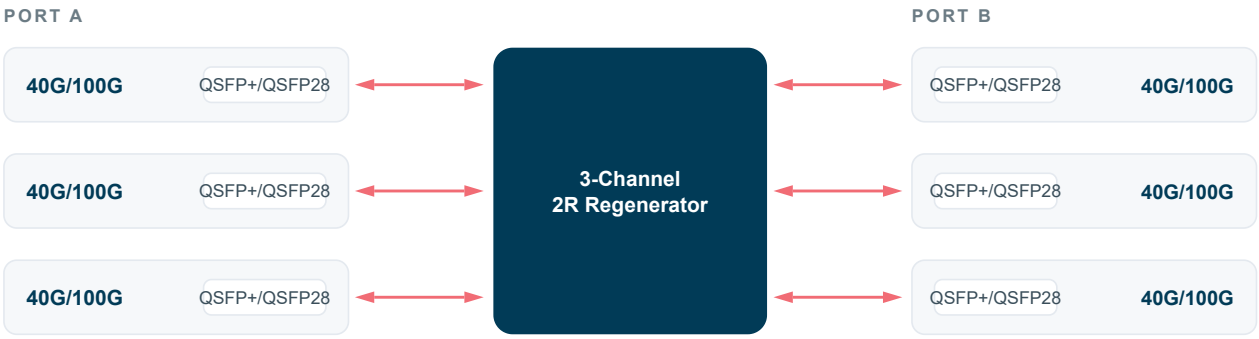
Built-in optical safety

Automatic laser shutdown and restart (ALS) protects the link on loss of input signal, with no manual intervention needed.

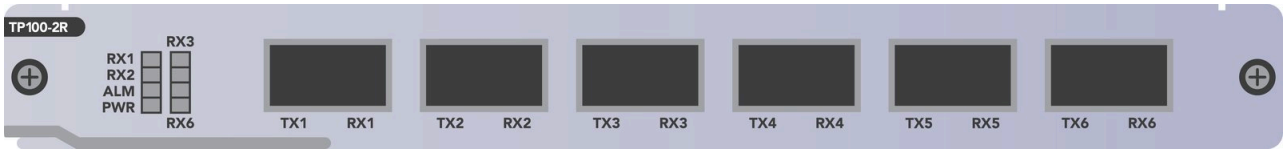
Compact and power-efficient

Occupies a single slot across the full OTN WDM chassis range, drawing just 26 W with optical modules fitted.

FUNCTIONAL STRUCTURE



FRONT PANEL



FORMAT

CARD FOR WDM CHASSIS 1 SLOT

SPECIFICATIONS

APPLICATION	
Regeneration Channels	3 independent, unidirectional or bidirectional per channel
Supported Service Rate	40 Gbps or 100 Gbps (per channel, not mixed)
INTERFACES	
Connectors	6 × QSFP+/QSFP28, pluggable (2 per channel)
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	26 W (including optical modules)

ORDERING INFORMATION

NAME	40G/100G OEO 2R Regenerator (3-Channel) for WDM Chassis
DESCRIPTION	2R optical regenerator board, 1 slot. Re-amplifies and re-shapes up to three independent 40G or 100G channels via on-board CDR chips, with no rate/format conversion; 6x QSFP+/QSFP28 ports total.
PART NUMBER	**WDM-TP-3x100G-3x100G-2R-1S**

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