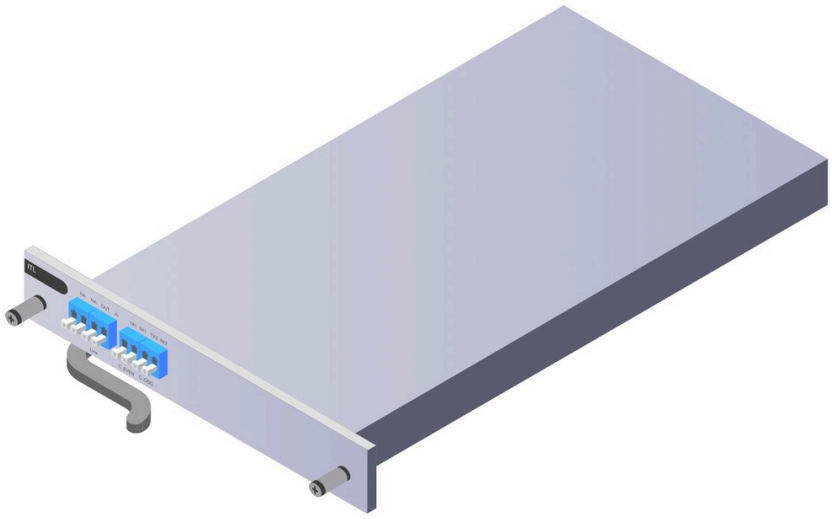
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OTN SYSTEMS WDM PLATFORMS

Interleaver Card for WDM Chassis

The Interleaver Card is a passive comb filter that combines an Even Grid and an Odd Grid 100GHz DWDM signal into a single 50GHz-spaced line, doubling channel density onto one fibre, and performs the reverse process, splitting an incoming 50GHz line back into its Even Grid and Odd Grid components. It requires no active temperature control and holds stable performance across environmental conditions, meeting Telcordia GR-1221-CORE requirements. Pairing an Interleaver Card with an Even Grid and an Odd Grid AWG or MuxDemux card doubles system capacity without a native 50GHz filter.



HIGHLIGHTS

Doubles channel density

Combines Even Grid and Odd Grid 100GHz signals into one 50GHz-spaced line, taking a 40-channel system to 80 channels.

Bidirectional Mux/Demux

The same card combines the two tributaries onto the line, and splits an incoming line signal back into Even Grid and Odd Grid.

Fully passive, no temperature control

A cross-filtering design holds stable performance across environmental conditions with no active temperature control.

Low insertion loss

≤2.0dB insertion loss with ≤0.5dB flatness across the passband.

High adjacent-channel isolation

≥22dB adjacent-channel isolation keeps crosstalk low at the tighter 50GHz spacing.

Telcordia GR-1221-CORE compliant

Meets Telcordia environmental and reliability requirements in a compact 1-slot footprint.

FUNCTIONAL STRUCTURE



FRONT PANEL



FORMAT

CARD FOR WDM CHASSIS 1 SLOT

SPECIFICATIONS

Optical	
Operating Wavelength Range	C-band: 1528–1568nm
Channel Spacing	Mux: input 100GHz / output 50GHz · Demux: input 50GHz / output 100GHz
Channel Centre Wavelength	ITU-T Grid
Insertion Loss	≤2.0dB
Bandwidth @ 0.5dB	≥14GHz
Bandwidth @ 20dB	≤38GHz
Adjacent Channel Isolation	≥22dB
Flatness	≤0.5dB
Return Loss	≥40dB
Dispersion	±75ps/nm
Polarisation Mode Dispersion	≤0.5ps
Management & Mechanical	
Number of Slots Occupied	1 slot (OTN WDM chassis)
Optical Interface	LC/UPC
Reliability	Telcordia GR-1221-CORE compliant

ORDERING INFORMATION

NAME	Interleaver Card for WDM Chassis
DESCRIPTION	Interleaver card, 1 slot. Passive comb filter combining an Even Grid and an Odd Grid 100GHz channel set into a single 50GHz-spaced 80-channel DWDM line, and separating a combined 50GHz line back into its Even/Odd Grid 100GHz components.
PART NUMBER	**WDM-ITL-1S**

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