Tunable Dispersion Compensation Card

TDC (tunable dispersion compensator) card launched by Sintai Communications Co., Ltd. is mainly used for dispersion compensation of high-speed transmission system. It can accurately manage the residual dispersion after segmented fixed optical compensation, and provide flexible and accurate solution for dispersion compensation. The product is independent, transparent, safe and reliable for optical transmission signals, so as to ensure normal communication of the system. It is suitable for high-speed, long-distance WDM transmission system

Product diagram



Product features

- Adjustable: TDC provide high precision, dynamically adjustable dispersion compensation over a wide range of dispersion value.
- Low latency: TDC latency is less than 25ns, making it ideal for time-sensitive networks
- G.652 slope matching: TDC compensates for the dispersion slope of the fiber, providing accurate and uniform residual dispersion for each channel of the C-band
- Multi-channel: TDC has a complete C-band coverage and can be used on 50GHz or 100GHz DWDM networks.
- Dispersion compensation range is large, and it can be selected from ±800ps/nm to ±1200ps/nm
- Optical path is transparent and does not change the optical signal
- Simple structure and convenient maintenance

Product specification

Function	Note	
Working wavelength range	C band: 1528nm~1568nm	
Channel spacing	50-100GHz	
Dispersion compensation range	±800ps/nm	±1200ps/nm
Absolute dispersion accuracy	±25ps/nm	±60s/nm
Introduction loss	＜4dB	
PDL	＜0.3dB	
PMD	＜1ps	
Max input optical power	+27dBm	

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Dispersion setting resolution	±10ps/nm
Button and display function	Support local button operation dispersion compensation range setting, with the display can visually display the current status
Network management function	Support real-time monitoring of TDC optical power, remote setting of dispersion compensation range, etc.
Occupied slot number	Support OTNS8600 series chassis，occupy 1slot
Optical interface	LC/UPC
Max power consumption	5W
MTBF	＞100000 hours