

OLP (Optical Protection Card)

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Details

The main function of the optical protection card (OLP) launched by D Tech Trading is to assist the wavelength division system to complete optical layer protection solutions such as optical line 1+1 protection and optical wavelength 1+1 protection. It can monitor the optical signal status of the main and standby routes in real time. Once the optical signal is interrupted or the performance is degraded, it can automatically make a safe switch on the main and standby routes to ensure the rapid recovery of the optical signal of the system. OLP technology is to complete the route switching operation in the optical layer. Optical layer protection has incomparable advantages over upper layer service protection, and is the best solution to provide users with nonblocking communication.

Application case

Suitable for optical line 1+1 protection (OLP)

Suitable for optical multiplexing section 1+1 protection (OMSP)

Suitable for optical channel 1+1 Protection (OCHP)

Product Specification:

Specification	Value
Function	Support optical signal 1+1 protection, double transmitting and selective receiving, single terminal switching
Slot number	1 slot
Integration	Support 1 or 2 groups of optical protection modules (optional according to the application scenario)
Working wavelength range	1528nm ~ 1568nm
Insertion loss	TX?4 dB, RX?1.5 dB
Switching time	5 ms (switching time of pure optical switch)
Input optical power	-25 dBm ~ +21 dBm

Specification	Value
Optical power detection accuracy	±0.5 dBm (@>-25 dBm or above)
Polarization dependent loss	≤0.1 dB
Isolation degree	>50 dB
Return loss	>45 dB
Switching time	>(10) ⁷
Switching condition	Relative power difference and absolute power value
Switching method	Support locking, forced switching, manual switching and automatic switching
Reliability	Power down / power on latch, hot pluggable, and main control card failure does not affect protection switching