

OPS

Optical Protection Switch Card

Main Features

- Protocol and rate independent
- Supports 1+1 failover mechanisms, Switch time <25ms
- Rapidly detects fiber cuts
- Monitoring optical connections in active and passive network components
- 1:1 and BIDI optional
- Modular and cost-effective
- Support CLI, Telnet, SNMP GUI NMS Danriver iCEO B/S



Figure 1: OPS Card

Benefits

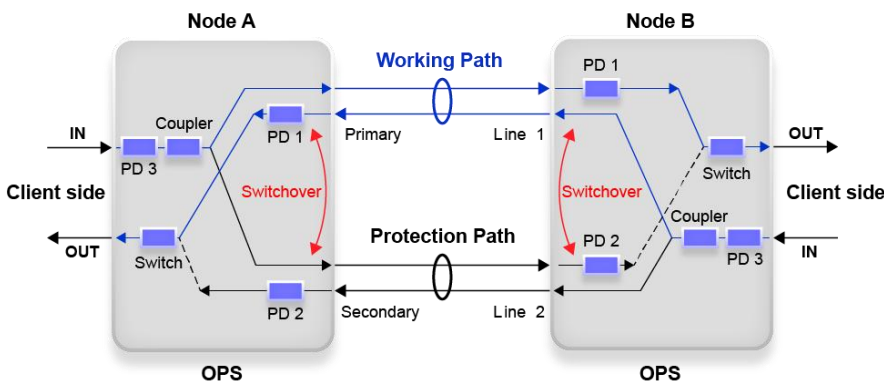
- High availability
- Managed service platform CTX6600
- Modular and cost-effective for future growth and maintenance access

Description

The module is a head-end split, tail-end select optical protection switch, 1+1 Optical protection switch is provided by primary and secondary transmit paths. The OPS card is deployed in an active CTX chassis at the originating end of a line, and the other OPS card is deployed in a CTX chassis at the destination end of the line. In the receive direction, the optical power levels of the primary and secondary line input ports are continuously monitored. Upon detected loss of the primary (working) path, the card automatically switches to the secondary (protecting) path. When the primary path becomes available, the card will either automatically revert (switch back to primary), or remain on the secondary path until manually set by the user, depend on the OPS card

Applications

- Enterprise Private Line
- DCI
- End to End, Single end
- Dual fibers, BIDI single fiber



Technical Specifications

Common features	
Type	1+1 OPS
Operating Wavelength	1470 nm to 1625 nm 1290 nm to 1360 nm
Switch Type	Latching
Protocol and rate	Transparent
Reverse Recovery	Supports
Connector	LC/UPC
Other type	1:1 OPS/ bidi OPS depend on Request
Rx Switch(Line Side)	
Insertion Loss(including connector)	2.0dB(Max.)
Switch time	<25ms
Input Optical Power	14dBm(Max.)
Settable LOS Threshold	-10dBm~ -30dBm
Power detection accuracy	± 1dB Typical
Crosstalk	55dB(Min.)
Optical Return Loss	40dB ~ 45dB
Repeatability	-0.1dB ~ +0.1dB
Tx Switch(Line Side)	
Insertion Loss(including connector)	3.0dB ~ 3.5dB
Input Optical Power	24dBm(Max.)
Optical Return Loss	55dB(Mini.)
Performance Monitoring	
Visual Indicators	LED status indicators for: client and line ports,Pri/Sec,STAT of line card
Optical Monitoring	Rx/Tx Optical Power etc
OAM	Event logs Alarms
Physical feature	
Dimensions(HxWxD mm)	20x192x223
Weight (kg)	0.35
Package options	Plug-in Card
Platform	CTX6600 I/II/V
Slot assignment	Any slot except for Slot 1
Environment	
Operating Temperature	-5°C to 50°C
Storage	-20°C to 85°C
Humidity	5% ~ 85% RH non-condensing
Power Supply	
Power Input	DC -48V input from backplane
Power Consumption	< 10
Compliance	
Standards	RoHS 5/6

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Danriver for more details.
www.danriver.com.cn

@上海旦瑞电信科技有限公司 Danriver Technologies Corporation