



OBP Intelligent Optical Bypass Protection System

Features

- Transparent transmission to an optical physical link
- Support gigabit and 10 gigabit networks
- Diversified heartbeat patterns
- Low insertion loss, high stability instantaneous switchin



Application

- PDH, SDH line protection systemDWDM
- Power communication line protection system
- CATV line protection system

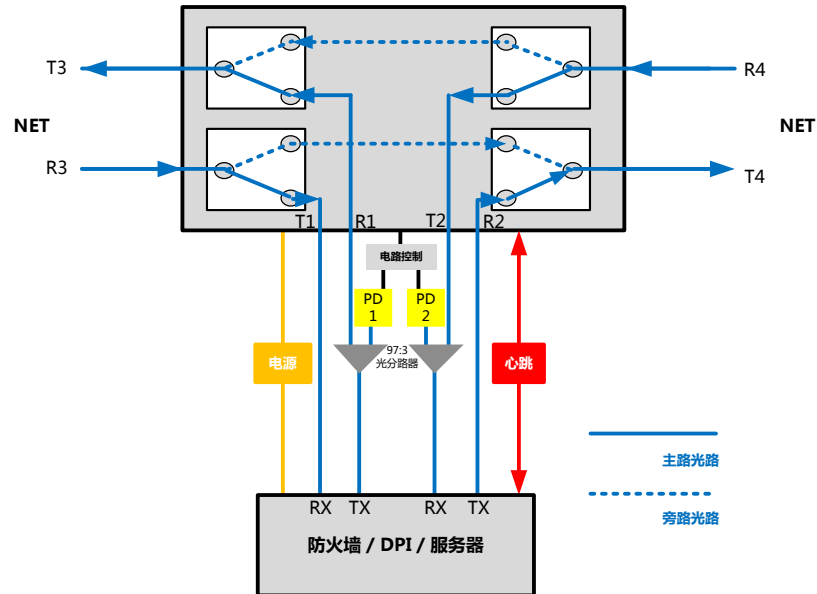
OBP bypass protection system is a kind of light is applied to optical fiber communication field and can automatic bypass fault intelligent network node system, through the automatic identification of the network node power supply system and optical signal output state, when the node fault system, automatically instantaneous switch, light path around the fault of network nodes, so as to avoid network node all resistance barriers, maintain system connected to normal.

Technical parameters

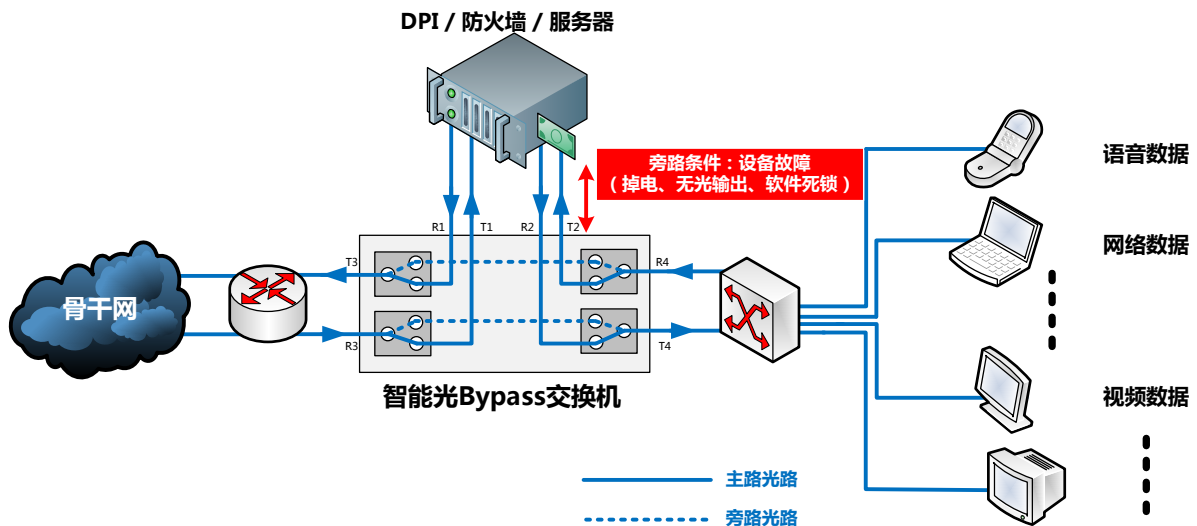
parameter	Unit	Indicators	
		Single mode	Multimode
Test the wavelength	nm	1310 / 1550	850
Insertion loss	dB	≤ 1.5	≤ 1.5
Return loss	dB	≥ 45	≥ 30
Crosstalk	dB	≥ 55	≥ 35
Wavelength dependent loss	dB	≤ 0.25	≤ 0.25
Polarization dependent loss	dB	≤ 0.1	≤ 0.1
Switch time	ms	< 10	< 10
Optical fiber type		SM (9/125um)	MM (62.5/125um)
Optical connector		LC/PC	
Monitor the port		RJ45、RS-232	
Working power supply	V	AC: 85 ~ 264 (50/60Hz) Or DC: 36 ~ 72	
Power consumption	W	< 5	
Working temperature	°C	$-5 \sim 55$	
Storage temperature	°C	$-20 \sim 75$	
The case type		1U standard 19 "rack (483×220×44mm)	



Light path principle



Application solutions



Networking applications of intelligent optical Bypass switches



Order information HC - OBP - A - B - C - D - E - F - G

A	B	C	D	E	F	G
Structure	Working wavelength	Protect the way	To protect the imlet	Number of light detection paths	Heartbeat/com munication interface	The power supply mode
1: 1U rack type	3: 13/15 single mode	1: useing	1:1 road	0: No ground light	1:USB	1: USB power supply
5: Insert disc	4: More than 85 die	3: Power loss + passive heartbeat	2:2 road	1: R1, R2 detection	2:RS232	2:AC85~265V
X: Other	X: Other	4: Power loss + active heartbeat	4: 4 road	2:R1-R4 detection	3:RJ45	3:DC36~72V
		5: Detecting light + passive heartbeat	X: Other	X: Other	4:RS232/RJ45	4: Double AC
		6: Light detection + active heartbeat			5:RS485	5: Double DC
		X: Other			6:RS485/RJ45	6: Hybrid AC/DC