OBP 1:1 Optical Bypass Protection card

The OBP optical bypass protection subsystem (Bypass) launched by Guangzhou Sintai Communication Co., Ltd. is an intelligent optical path switching system. It belongs to the physical layer equipment and is applied to pure optical network environment. It can automatically identify the power supply status and optical signal output status of network nodes. When the local optical equipment fails (including power interruption, hardware or software failures), it can instantaneously switch to the bypass optical path, and the communication line will bypass the local equipment (i.e. the fault node), thus avoiding the total resistance obstacle caused by the fault node and ensuring the normal system connectivity.

Product Feature

- Applicable to all kinds of gateway equipment, such as DPI equipment, firewall, IPS, UTM, IDP, spam gateway, anti-virus gateway, special DDos equipment, special logic isolation equipment in all fields, etc.
- Support power-off and power-on retention function: Bypass equipment's power-off or power-on, does not affect the switching status of work routing to ensure the normal operation, and has hot-swap function.
- Unique power storage function to ensure that no wrong switch occurs even when the bypass equipment itself is power off.
- Automatic instantaneous switch to fault nodes without human intervention, switching time < 20ms
- OBP card and network management card are independent of each other and have no influence on each other
- Support multi-kinds of graphical interface network management, such as SNMP, Web
- Support AC power 220V, DC power -48V, and 1+1 power input protection
- 1U pluggable rack mount, flexible capacity configuration

Product Specification

Item		Parameter	
Working wavelength range		850nm、1260nm ~ 1650nm	
OBP type		OBPA (dual fiber 1+1 protection)	OBPB (dual fiber 1:1 protection)
Switching time		＜20ms	＜20ms
Introduction loss	**Cascade**	＜3.5dB (typical 50%: 50% splitter)	＜1.5dB
	Bypass	＜4.5dB (typical 50%: 50% splitter)	＜1.5dB
Monitoring power range		-50 dBm ~+25dBm	
Working temperature range		-10℃~60℃	
Working temperature range		5%~95% no condensation	
Storage temperature		-40℃~85℃	
Equipment dimension		1U: 44 mm (H)×442 mm (W)×280 mm (D)	

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Network management	Support multi-kinds of graphical interface network management, such as SNMP, Web
Optical interface	LC/UPC
Power supply	AC: 90 ~ 260V or DC: -36 ~ -72 V (support 1+1 power input backup)
Typical power consumption	Full configuration <25W
Heat dissipation	Fan cooling
MTBF	＞100000 hours