Optical Bypass Protection System

GOBPS-xxxxxxx

Description

Gigalight's Optical Bypass Protection (OBP) system is an intelligent switching system which can bypass the faulty node caused by power off or fault of optical output. It can identify the power status of network node and the status of optical signal output, and instantaneously take switching of optical route when network node fails accidentally, thus avoid all route blocking and guarantee the high availability of the whole network.

Features

➢ Signal transparent transmission

➢ Support 1G, 10G and 100G network

➢ Real-time optical power monitoring, alarm system

➢ Low insertion loss, high stability and instantaneous switching

➢ With LCD screen and control panel and network management
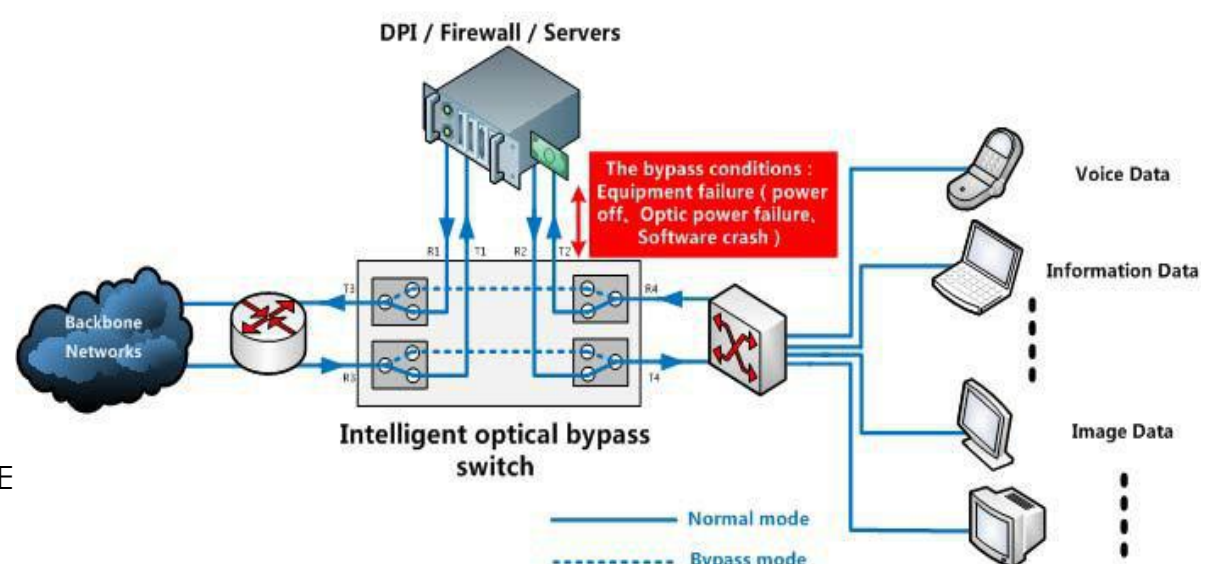
➢ Customized product available

Applications

➢ PON Networks

➢ Protection

➢ Instrumentation

Compliance
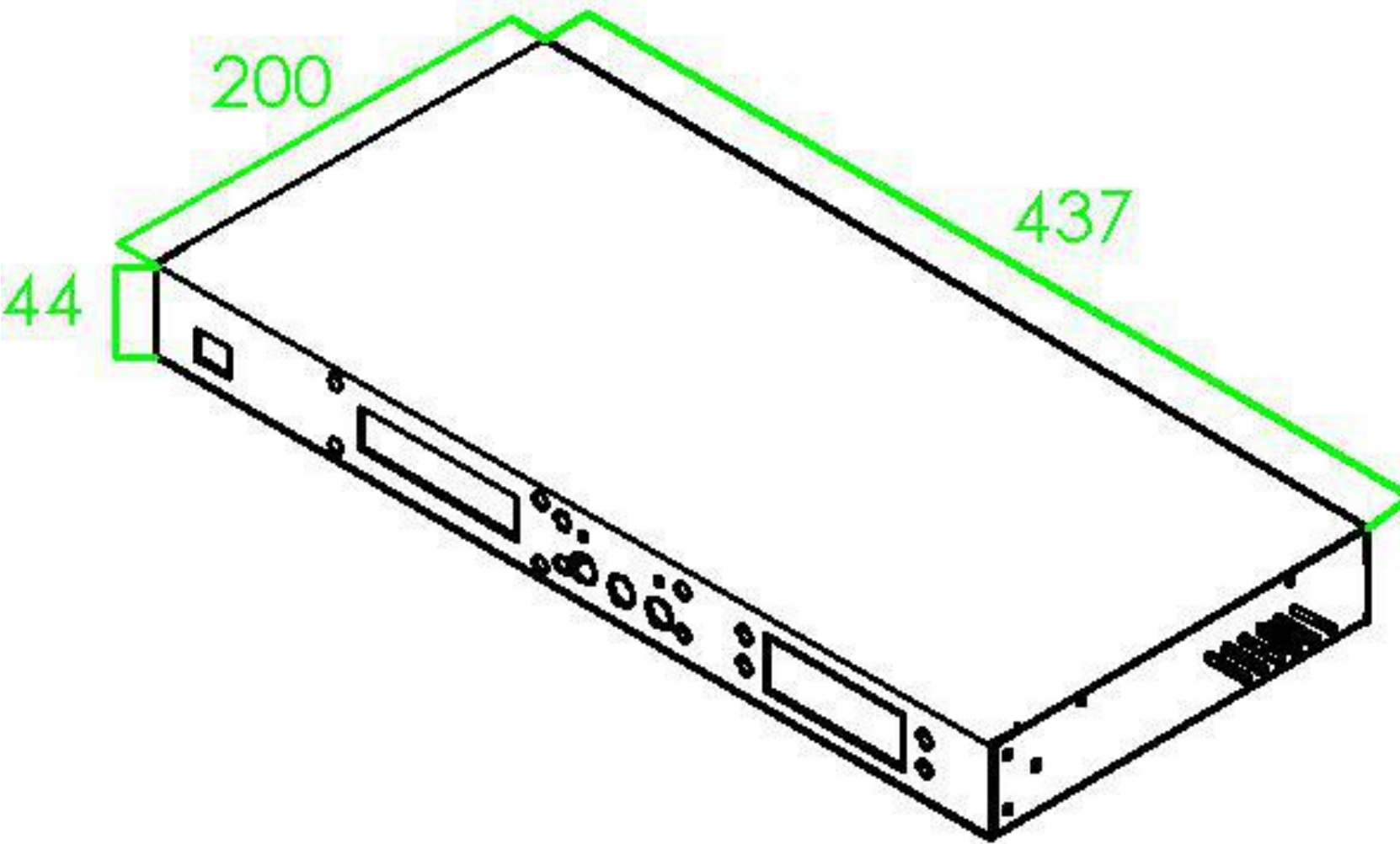
➢ Telcordia GR-1312-CORE

➢ RoHS

Specifications

Parameters	Value	
	Single Mode	**Multimode**
Wavelength	1310nm or 1550nm	850nm
Insertion Loss	≤ 1.5dB	
Return Loss	≥ 45dB	≥ 30dB
Crosstalk	≥ 50dB	≥ 35dB
WDL	≤ 0.25dB	
PDL	≤ 0.1dB	
Switching Time	< 10ms	
Fiber Type	9/125μm	62.5/125μm
Optical Power Range	-50dBm to 23dBm	
Optical Power Accuracy	0.5dBm	
Optical Power Resolution	0.01dB	
Switching Lifetime	10 Million Cycles	
Optical Connectors	LC/UPC	
Network Interface	RJ-45, RS-232, RS-485	
Power Supply	AC: 85~264 (50Hz/60Hz), DC: 36~72	
Power Consumption	< 5W	
Operating Temperature	-5℃ to 55℃	
Storage Temperature	-20℃ to 75℃	
Dimensions (L×W×H)	1U 19" Rack Mount (437×200×44mm) or Plug-in Card	

Note: The parameters are specified with connectors. Specifications are subject to change without notice.

Mechanical Dimensions

1U 19" Rack Mount for example

Ordering information

GOBPS-	x	x	x	x	x	x	x
	Package	Wavelength	Protection Type	Protection Ways	Detection Type	Network Interface	Power Supply
	1=1U 19" Rack Mount	5=Single Mode 1310nm or 1550nm	1=Power-off	1=1-way	0=None	1=RS-232 & RJ-45	1=AC & DC
	2=Plug-in Card	8=Multimode 850nm	2=Power-off + PD	2=2-way	1=R1-R4	2=RS-485 & RJ-45	2=AC 85V~264V
						3=RJ-45	3=DC 36V~72V
						4=RS-232	4=Dual AC
						5=RS-485	5=Dual DC

Example P/N

GOBPS-1522125 — Optical Bypass Protection System with 1U 19" Rack Mount Package, Single Mode 1310nm or 1550nm Wavelength, Power-off & PD Protection Type, 2 Protection Ways, R1-R4 Detection Type, RS-485 & RJ-45 Network Interface, and Dual DC Power Supply.

Note: If there is a demand for orders that are different from those described above, please contact sales.