POWER SUPPLY
REDUNDANT

DIN RAIL

HARDENED
-20 TO +70°C

1G GIGABIT
2 DUPLEX

XE 10 GIGABIT
2 DUPLEX

The ComNet CN-OB(M,S) external bypass switches for 100M/1G/10G fiber optic networks protect the network from failures and ensure network integrity during power loss. Each of these fiber optical bypass switches includes Network ports and Monitor ports. The Network ports are used for connection to main-network connections and provide protection mechanism, and the Monitor ports are used for down-link local networking device. When the power is on, the operation mode of the Bypass switch is set to Normal, and the local networking device is connected with main-network. When power failure occurs, the Bypass switch is swiftly set to bypass mode to isolate the main-network from the local networking device.

FEATURES

› Support 100M/1G/10G optical bypass function of 2 port duplex or 4 port simplex fiber connection

› Different models supported for multi-mode or single-mode optical fiber

› Low insertions loss

› Throughput not affected and no extra delay

› Bypass switching time < 10ms

› Dual wide-range power inputs: 12~48VDC

› Relay output for power failure warning

› Rigid IP-30 housing design

› Surface, Wall or DIN-Rail tmount form factor

› Lifetime Warranty

SPECIFICATIONS

Fiber Optic

Optical Ports	4 Duplex LC connectors
Fiber	Single mode 9/125µm 1260 ~ 1570 nm or Multimode 50/125µm or 62.5/125µm 780 ~ 1350 nm (model dependent)
Insert Loss	1.6 dB (Single mode) or <1.0 dB (Multimode)
Switch Time	< 10 ms

DIP Switch Settings

DIP Switch 1	Power-1 failure detection – relay enable (ON) / disable (OFF)
DIP Switch 2	Power-2 failure detection – relay enable (ON) / disable (OFF)

Fault contact

Relay	Relay output for power failure warning

Power

Input Power	Dual 12~48 VDC power inputs at DC-Jack and 4-pin terminal block
Power Consumption	2.7 W, Typical
Current Protection	Overload Current /Reverse Polarity Protected (Terminal Block Only)

Electrical & Mechanical

Indicating LEDs	Power Normal Fault
Enclosure	IP-30
Size	1.03 × 3.74 × 5.68 in (2.61 × 9.49 × 14.43 cm)
Shipping Weight	0.89 lb / 405 g

Environmental

MTBF	1,000,000 hours
Operating Temperature	-20˚ to +70˚ C
Storage Temperature	-40˚ to +85˚ C
Relative Humidity	10% to 90%

Regulatory Approvals

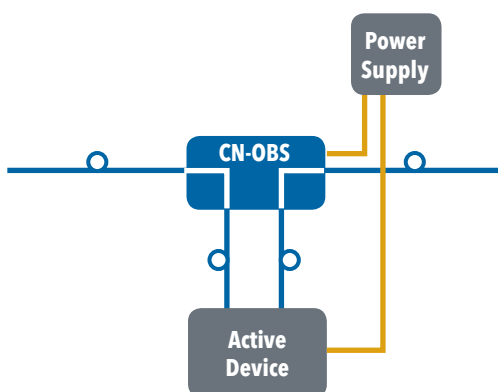|	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   RoHS

Low Power Consumption

ORDERING INFORMATION

Part Number	Description
CN-OBM	Industrial 2-port bypass switch for fiber optical network with 4 × LC duplex, Multimode, LC connector
CN-OBS	Industrial 2-port bypass switch for fiber optical network with 4 × LC duplex, Single mode, LC connector
Included Accessories	Wall-mount Kit DIN-Rail Kit
Options	Power Supply (extra charge, consult factory)

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J.

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATIONS

Normal Operation

Bypass Operation

Optical Fiber

comnet Communication Networks

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