



IGE-C800:

Industrial 1000Base-T to 1000Base-X GbE Media Converter with LFP Wide Temperature

Key Features

- 1000Base-T to 1000Base-X media converter
- Choice of SC, BiDi or LC connector for multimode and singlemode
- LFP (Link Fault Pass-through) detection technology
- Power failure, port break alarm by relay output
- Power A, Power B (Removable terminal block dual inputs) and DC jack with wide range input, DC24V(12~48V)
- Reverse power polarity protection
- IP30 grade protection case
- -40°C ~75°C wide operating temperature for hazardous environment applications
- RoHS Compliance

Overview

IGE-C800 is a media converter qualified for extended distance transmission under harsh environment. For the easy maintenance and time-saving, IGE-C800 features remote Link Fault Pass Through technology which provides remote link down signal forwarding, acknowledging link events occurred on each end of IGE-C800 to main server. To activate forwarding mode and LFP functions, simply adjust DIP switch then reset the converter, the reconfigurations will be applied. Single-mode and Multi-mode fiber optical ports meet your needs for long distance transmission. When you are ready to install IGE-C800, you will find out that it can be easily wall mounted and be mounted directly on DIN rail. IGE-C800 provides three DC24V inputs, and it is also compatible with range from DC 12V~48V. Dual power inputs and built-in reverse polarity protection are designed With IP30 rigid aluminum case, CE/FCC regulatory approvals, and 3-year global warranty, IGE-C800 series are your reliable choices for hazardous applications.

Technical Specifications

- **Standard Compliance:**
 - IEEE802.3z 1000Base-X
 - IEEE802.3ab 1000Base-T
 - IEEE802.3x Flow Control and Back pressure
- **Data Transfer Rate:** 1000Mbps:1,488,000 pps
- **Connector**
 - RJ-45: 1000Mbps
 - SC/LC: 1000Mbps
- **Cable**
 - TP: Cat.5 or Advanced(Support distance up to 100m)
 - Fiber (M-M):50/125,62.5/125µm
 - Fiber (S-M):8.3/125,8.7/125,9/125,10/125µm
- **Flow Control**
 - IEEE802.3x compliant for full-duplex
- **LED Description**

LED	Color	Function
TP 1000	Green	---Lit when TP connection is good at 1000Mbps full-duplex ---Off when TP link down
TP ACT	Green	---Blinks when TP traffic is present ---Off when TP is no traffic
FX LNK	Green	---Lit when FiberOptic connection is good ---Off when Fiber Optic link down
FX ACT	Green	---Blinks when Fiber Optic traffic is present ---Off when Fiber Optic is no traffic
PWA	Green	---Lit when powerA is coming up ---Off when no power
PWB	Green	---Lit when power B is coming up ---Off when no power
PWR	Green	---Lit when DC jack or power A or power B is coming up ---Off when no power

• Network Interface:

Category	Connector	Transmission	Max. Cable Length	Wavelength
1000-T	RJ-45	Full Duplex	100M	
1000-SX (M-M)	SC/LC	Full Duplex	0.55Km 50/125µm	850nm
1000-LX (S-M)	SC	Full Duplex	10/30/50Km 9/125µm	1310nm or 1550nm

• Hardware Spec

Feature	Description
Power Characteristics	Input: 24VDC (12~48VDC)
	Consumption: 4.78 W
Ambient Temperature	-40°C to 75°C
Humidity	5% to 95%
Dimensions	108(H) x 29.8(W) x 98(D) mm
Weight	0.44kg
Mounting Method	Din Rail, Wall mount
Safety	Comply with FCC Part 15
	Class A & CE Mark Approval
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6
Case	IP30 Protection (IP31 optional)
Warranty	3 Years

Packing Information

Carton Dimensions(mm)	pcs/Carton	N.W (KG)	G.W(KG)
602x447x348	40	24.4	25.4

Ordering Information

Model	Description
IGE-C800SC	Industrial 1000Base-T to 1000Base-X GbE Media Converter with LFP Wide Temperature, SC Multi-mode
IGE-C800SC.S10	Industrial 1000Base-T to 1000Base-X GbE Media Converter with LFP Wide Temperature, SC Single-mode, 10 Km
IGE-C800LC	Industrial 1000Base-T to 1000Base-SX GbE Media Converter with LFP Wide Temperature, LC Multi-mode
IGE-C800LC.S10	Industrial 1000Base-T to 1000Base-LX GbE Media Converter with LFP Wide Temperature, LC Single-mode, 10 Km

Any other distance, such as 30km, 50km,, 100km, etc. is upon request.

Optional Accessories

MDR 20-24	24W/1A DIN-Rail 24VDC Power Supply with universal 85 to 264 VAC input
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