

IPGC-0101DSFP

10/100/1000T to 100/1000M SFP 802.3at Industrial PoE Switch

Converter; 12V / 48V input

- IEEE802.3at PoE/PSE Feature
- Support auto-sensing LLF / 10K bytes Jumbo Frames
- Dual speed SFP cage (100/1000MFX) set by DIP Switch
- Dual DC input power: 12V model(9.5~57VDC) ; 48V model(44~57VDC) , supports dual -48VDC input
- Operating Temperature Range from -40 °C to 75 °C(-E model)
- Remote enable/disable PoE feeding power



OVERVIEW

The Lantech IPGC-0101DSFP is an Industrial Converter converging from 10/100/1000BaseT to 100/1000M-FX dual speed with 802.3at/af PoE support. It supports 10K jumbo frame.

Auto-sensing LLF and Power Fault LED/relay alarm setting by DIP switch

Featured with LLF (Link Loss Forwarding) function, Lantech IPGC-0101DSFP is able to auto cut off connection if one end of connection is down. When copper port disconnects, it will auto turn off fiber port. When fiber port disconnects, it will auto turn off copper port. Smart LLF function alert central side switch immediate remedy action when connection is lost.

Power Fault LED and relay alarm can be off by DIP switch

Dual DC input power

IPGC-0101DSFP supports dual input from 9.5V~57VDC (12V model) or 44V~57VDC, dual -48VDC input (48V model) for various application including vehicle, railway, solar panel etc.

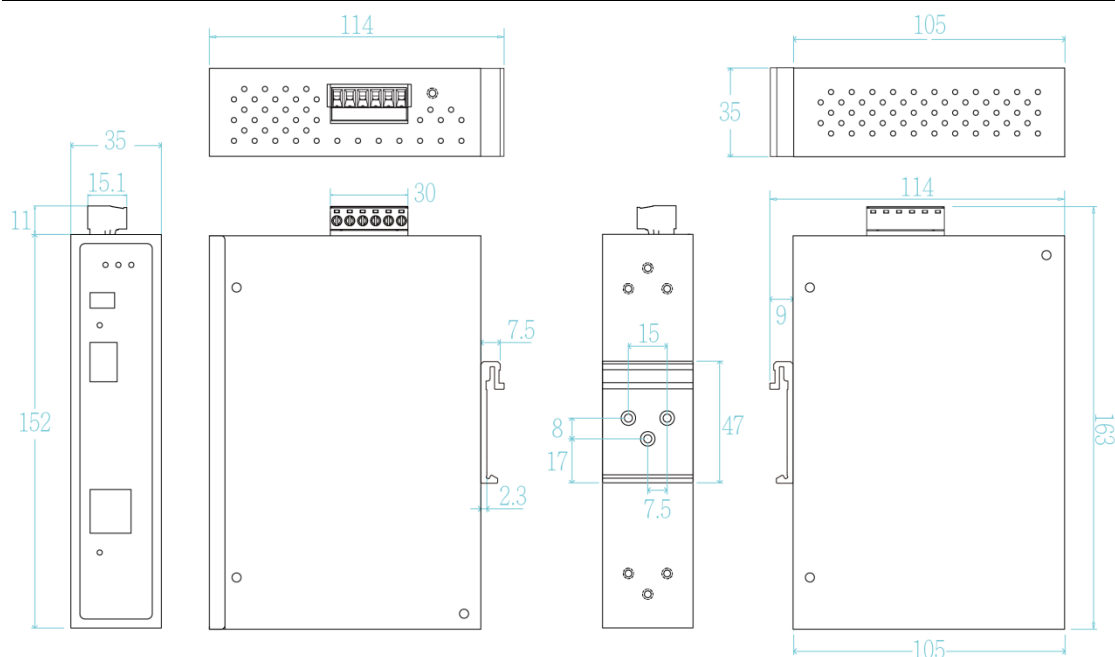
Hardened design with extended temperature range

It provides $\pm 2000V$ EFT and $\pm 6000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- **System Interface/Performance**
 - UTP to Fiber Media Converter
 - Dual speed SFP cage (100M/1000M)
 - RJ-45 port support Auto MDI/MDI-X Function
 - Auto Negotiation Speed, Half/Full Duplex
 - Jumbo Frame: 10Kbytes
- IEEE802.3at PoE/PSE Feature
- Supports Wide Operating Temperature (-40°C~ 75°C;-E)
- Supports Link Alarm
- Redundancy Power Input with Terminal Block
- Metal Housing with DIN Rail and Wall Mount* Design
- Supports Wide Operating Temperature (-40°C~ 75°C;-E)
- Power polarity auto-reverse* and protection
- Remote enable/disable PoE feeding power

DIMENSIONS (unit=mm)

SPECIFICATION

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX/100Base-FX IEEE802.3ab 1000Base-T IEEE802.3x Flow Control and Back pressure IEEE802.3z 1000BaseSX/LX standards IEEE802.3at PoE/PSE	Connectors	Fiber: Mini-GBIC 3.3V 100/1000M FX RJ-45 Socket: CAT-5 (10/100/1000Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support
Switch Architecture	Store and Forward	LED	Per unit: Power1 (Green), Power2 (Green), Fault (Red) Fiber: Link/Active (Green) TX: Link/Active (Green), speed (Yellow) PoE : Green
Jumbo Frame	10Kbytes	Power Supply	Dual 9.5V~57VDC (12V model) Dual 44V~57VDC, dual -48VDC input (48V model)
Fiber parameters	Fiber Core: Multi-mode (62.5/125um, 50/125um) Single-mode (9/125um) Wavelength: 850nm(Multi-mode) 1310nm(Single-mode) Fiber Distance: Based on transceiver type for different distance	Power Consumption	5 Watts max.
Optical Cable	1.25Gbps: Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) 125Mbps: Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 μm) Single mode: 0 to 30 km, 1310 nm (62.5/125 μm) WDM 1.25Gbps: Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) WDM 125Mbps: Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 μm); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm)	Operating Humidity	5% ~ 95% (Non-condensing)
DIP Switch	DIP Switch 1: ON: Enables Power Fault Alarm OFF: Disables Power Fault Alarm DIP Switch 2: SFP speed	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
Polarity protection	Power polarity auto-reverse* and protection	Storage Temperature	-20°C~70°C / -4°F~158°F
Relay Alarm	Provides one relay output for power fail alarm. Alarm Relay current carry ability: 1A @ DC24V	Case Dimension	Metal case. 35mm (W) x 152mm (H) x 105mm (D) mm
		Installation	DIN Rail and Wall Mount* Design
		EMI & EMS	FCC Part 15 Class A, CE EN55032 Class A, CE EN55024, CE EN61000-4-2 (ESD) Level 3, CE EN61000-4-3 (RS) Level 3, CE EN61000-4-4 (EFT) Level 3, CE EN61000-4-5 ED3 (Surge) Level 3, CE EN61000-4-6 (CS) Level 3, CE N61000-4-8
		Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
		MTBF	1884611 hrs
		Warranty	5 years

*Optional

ORDERING INFORMATION

- **IPGC-0101DSFP-48V.....P/N: 8350-051**
10/100/1000T to 100/1000M-FX dual speed Mini-GBIC Industrial Switch Converter with 802.3at PoE, Operating Temperature -20°C to 60°C; Dual 44V~57V DC input
- **IPGC-0101DSFP-48V-E.....P/N: 8350-052**
10/100/1000T to 100/1000M-FX dual speed Mini-GBIC Industrial Switch Converter with 802.3at PoE, Operating Temperature -40°C to 75°C; Dual 44V~57V DC input
- **IPGC-0101DSFP-12V.....P/N: 8350-053**
10/100/1000T to 100/1000M-FX dual speed Mini-GBIC Industrial Switch Converter with 802.3at PoE, Operating Temperature -20°C to 60°C; Dual 9.5V~57VDC input
- **IPGC-0101DSFP-12V-E.....P/N: 8350-054**
10/100/1000T to 100/1000M-FX dual speed Mini-GBIC Industrial Switch Converter with 802.3at PoE, Operating Temperature -40°C to 75°C; Dual 9.5V~57VDC input

OPTIONAL ACCESSORIES

DIN Rail Power

- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)

Mini GBIC (SFP)

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| ■ 8330-162X MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-187 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550) |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-180 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310) |
| ■ 8330-165X MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-182 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-181 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310) |
| ■ 8330-166 MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-183 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550) |
| ■ 8330-169 MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-184 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | ■ 8330-185 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550) |
| ■ 8330-170 MINI GBIC 1000EZ (LC/SM/120KM) Transceiver | ■ 8330-071 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver |
| ■ 8330-168 MINI GBIC 10/100/1000T (100m) Transceiver | ■ 8330-072 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver |
| ■ 8330-060 MINI GBIC 100Base (LC/MM/2KM) Transceiver | ■ 8330-069 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver |
| ■ 8330-065 MINI GBIC 100Base (LC/MM/5KM) Transceiver | ■ 8330-068 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver |
| ■ 8330-061 MINI GBIC 100Base (LC/SM/30KM) Transceiver | ■ 8330-080 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver |
| ■ 8330-197 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) | ■ 8330-082 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver |
| ■ 8330-198 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) | ■ 8330-081 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver |
| ■ 8330-195 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) | ■ 8330-083 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver |
| ■ 8330-196 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) | ■ 8330-084 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver |
| ■ 8330-188 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) | ■ 8330-085 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver |
| ■ 8330-189 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) | ■ 8330-191 Dual Speed SFP 100M/1000M-LX 10KM Transceiver |
| ■ 8330-186 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) | |

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