

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(44~56VDC) , supports dual -48VDC input
- AREMA** part 11.5.1 compliance
- Operating Temperature Range from -40°C to 75°C(-E model)
- Remote enable/disable PoE feeding power through fiber



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~56VDC, dual -48VDC input (48V model) for various application including vehicle, railway, solar panel etc.

Hardened industrial design with extended temperature range ; CE, FCC, LVD, AREMA** part 11.5.1 compliance

It provides ±2000V EFT and ±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.

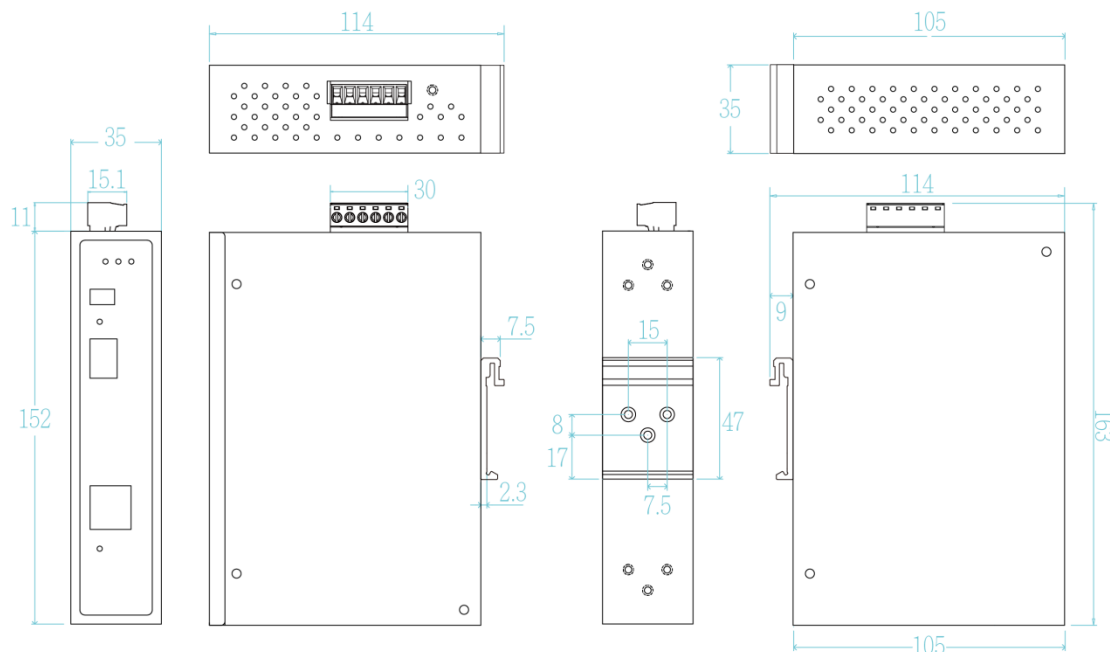
With CE, FCC, LVD and AREMA** part 11.5.1 verification, Lantech IPGC-0101DSFP is best for outdoor community, vehicle, railway, process control automation etc. For more usage flexibilities, IPGC-0101DSP-E supports wide operating temperature from -40°C to 75°C.

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 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
- AREMA** part 11.5.1 compliance (-AMA models)

- Supports Wide Operating Temperature (-40°C~ 75°C;-E)

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	Polarity protection	Power polarity auto-reverse* and protection
Switch Architecture	Store and Forward	Relay Alarm	Provides one relay output for power fail alarm. Alarm Relay current carry ability: 1A @ DC24V
Jumbo Frame	10Kbytes	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
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	LED	Per unit: Power1 (Green), Power2 (Green), Fault (Red) Fiber: Link/Active (Green) TX: Link/Active (Green), speed (Yellow) PoE : Green
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)	Power Supply	Dual 9.5V~57VDC (12V model) Dual 44V~56VDC, dual -48VDC input (48V model)
DIP Switch	DIP Switch 1: ON: Enables Power Fault Alarm OFF: Disables Power Fault Alarm DIP Switch 2: SFP speed	Power Consumption	5 Watts max.
		Operating Humidity	5% - 95% (Non-condensing)
		Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
		Storage Temperature	-20°C~70°C / -4°F~158°F
		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 EN61000-6-2, 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 EN61000-4-8, EN 50121-4:2015, EN 50121-5:2015 AREMA** part 11.5.1 compliance
		Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),

	IEC60068-2-6 (Vibration)	MTBF	1,884,611 hrs (standards: IEC 62380)
Safety	EN 60950-1	Warranty	5 years

*Optional

ORDERING INFORMATION

Optional AREMA certified models are available with –AMA model names.

- **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~56V 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~56V 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)

- | | |
|------------------------------------------------------------------|-----------------------------------------------------------------|
| ■ 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 1000EZX (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) | |

Lantech Communications Global Inc.
www.lantechcom.tw
info@lantechcom.tw

© 2020 Copyright Lantech Communications Global Inc. all rights reserved.
The revise authority rights of product specifications belong to Lantech Communications Global Inc.
Lantech may make changes to specification and product descriptions at anytime, without notice.