

IGC-0101GB

10/100/1000T to Mini-GBIC Industrial Switch Converter

- *UL Class I Division II for Group A,B,C and D hazardous location*
- *Built-in LLF & LFP technology*
- *Wide-range redundant power with polarity reverse protection*
- *Wide operating temperature range from -40°C to 75°C (-E model)*



OVERVIEW

The Lantech IGC-0101GB is an Industrial Converter converging from 10/100/1000BaseT to 1000M speeds. The unique "Link Loss Forwarding (LLF)" feature is capable to cut off whole line link connection whenever there is one end linking down.

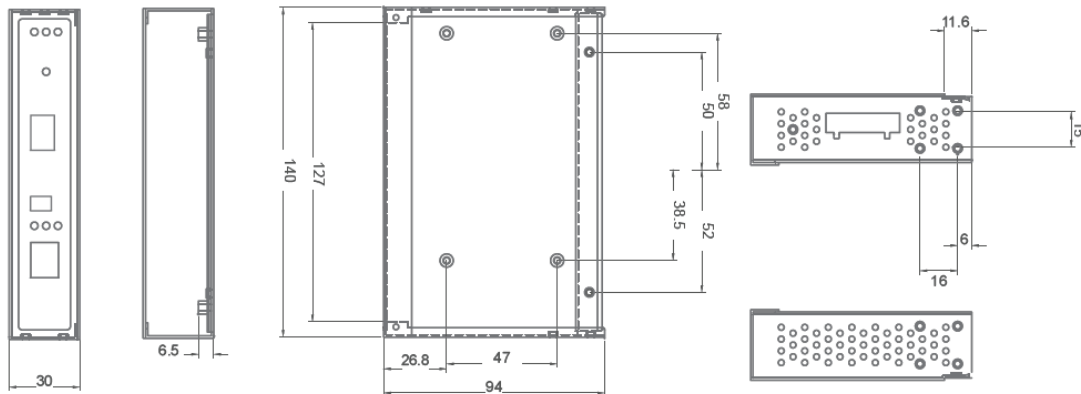
The Lantech IGC-0101GB supports power polarity reverse protection with wide range redundant power input design. Featured with fault relay function, the IGC-0101GB can be connected to alarm system and able to notify of power or network failure event immediately.

With IP30 metal housing and test under extensive Industrial EMI and Safety standards as well as UL Class I Division II approval, the IGC-0101GB can be implemented in hazardous or explosive condition without accelerating the damage. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements. These tests and certifications ensure the long term availability under the critical industrial environments such as inflammable environment where the liquid, gas and vapor etc might present the hazardous condition which generally to be find in mining, oil & gas, chemical, processing automation areas.

FEATURES & BENEFITS

- **System Interface/Performance**
 - UTP to Fiber Media Converter
 - RJ-45 port support Auto MDI/MDI-X Function
 - Auto Negotiation Speed, Half/Full Duplex
 - Jumbo Frame: 9Kbytes
 - Store-and-Forward Switching Architecture
- **Built-in Link Lose Forwarding(LLF) & Link Fault Pass-Through (LFP) Technology**
- **IP-30 Metal Housing with DIN Rail and Wall Mount Design**
- **Supports Wide Operating Temperature (-40°C~ 75°C)**
- **Power Supply**
 - Wide-range Redundant Power Design
 - Power Polarity Reverse Protect
 - Overload Current Re-settable Fuse Present
- **UL Class I Division II for Group A,B,C and D hazardous location**
- **Provides EFT protection 3000 VDC for power line**
- **Supports 6000 VDC Ethernet ESD protection**

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware 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
Switch Architecture	Store and Forward
Jumbo Frame	9Kbytes
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
Link Lose Forward	TX → Fiber: If TX port link down, the media converter will force Fiber port to link down Fiber → TX: If Fiber port link down, the media converter will force TX port to link down
DIP Switch	DIP Switch 1: ON: Enables Port Alarm OFF: Disables Port Alarm DIP Switch 2: TX → Fiber LLF(Link Lose Forwarding) & LFP (Link Fault Pass-Through) Disable/Enable
Connectors	Fiber: Mini-GBIC 3.3V RJ-45 Socket: CAT-5 (10/100/1000Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support
LED	Per unit: Power1 (Green), Power2 (Green), Fault (Red) Fiber: Link/Active (Green) TX: Link/Active (Green),1000M (Yellow)
Power Supply	24VDC (9~56VDC), 18VAC (12~36VAC), Redundant power with polarity reverse protect function and removable terminal block
Power Consumption	5.3 Watts
Reserve polarity protection	Present
Overload current protection	Present
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	-40°C~85°C / -40°F~185°F
Case Dimension	Metal case. IP-30, 30 (W) x 95 (D) x 140 (H) mm
Installation	DIN Rail and Wall Mount Design
EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Safety	UL, cUL, CE/EN60950 UL Class I Division II for Group A,B,C and D hazardous location
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
MTBF	525424 hrs
Warranty	5 years

ORDERING INFORMATION

- **IGC-0101GB.....P/N: 8350-050**
10/100/1000T to Mini-GBIC Industrial Switch Converter, Standard Operating Temperature (-20°C to 60°C)
- **IGC-0101GB-E.....P/N: 8350-055**
10/100/1000T to Mini-GBIC Industrial Switch Converter, Wide Operating Temperature (-40°C to 75°C)

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

Mini GBIC (SFP)

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| ■ 8330-162 MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) |
| ■ 8330-163 MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) |
| ■ 8330-165 MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) |
| ■ 8330-166 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8330-168 MINI GBIC 1000T (100m) Transceiver | ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-061 100Base LX 30KM, Single-mode, LC Transceiver | ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-060 100Base FX 2KM, Multi-mode, LC Transceiver | ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| | ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) |

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