

# ANT IMP-100A Series

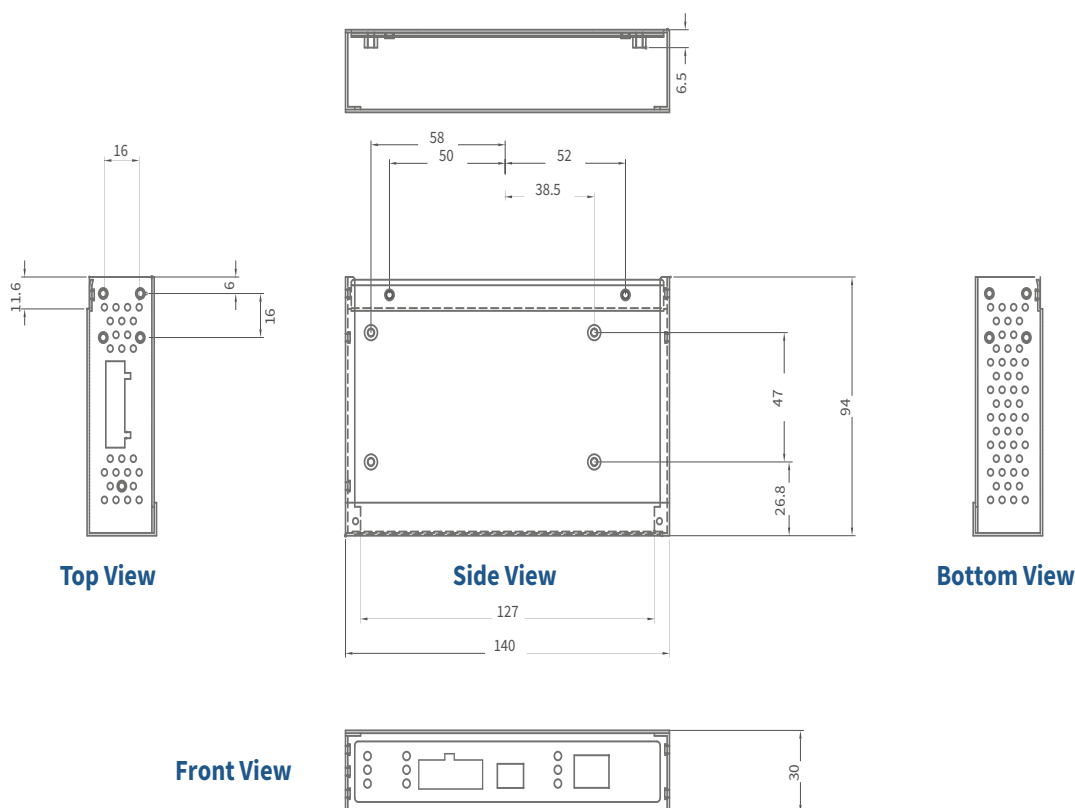
## Industrial 10/100BaseTX to 100BaseFX Industrial PoE Media Converter

### Features

- Embedded 1 Port PoE Injector Function
- RJ-45 Port Support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Built-in Link Loss Forwarding (LLF) & Link-Fault-Pass-Through (LFP)
- Wide Operating Temperature Model Available (-40° C to 80° C)
- DC 48V Redundant Power
- Provides EFT Protection 3000 VDC For Power Line
- Supports 6000 VDC Ethernet ESD Protection
- DIN-Rail or Wall Mountable
- IP30 Protection
- 5-Year Warranty



### Specifications



# ANT IMP-100A Serie

## Specifications

### Standard

IEEE 802.3 10BaseT Ethernet  
 IEEE 802.3u 100BaseTX/100BaseFX  
 IEEE 802.3x Flow Control and Back-Pressure  
 IEEE 802.3af Power over Ethernet

### Switch Architecture

Store and forward

### Transfer Rate

14,880pps for Ethernet Port  
 148,800pps for Fast Ethernet Port

### PoE Pin Assignment

RJ-45 Port Supports IEEE 802.3af End-Point, Alternative A Mode  
 Positive (VCC+): RJ-45 Pin 1, 2  
 Negative (VCC-): RJ-45 Pin 3, 6  
 Data (1, 2, 3, 6)

### Connector

100M Fiber: 1 x SC (Multi-Mode) or SC (Single-Mode, 30Km) 1 x  
 10/100TX: RJ-45 w/ Auto MDI/MDI-X & Auto-Negotiation  
 Function, Supports PoE Injector Function

### Network Cable

10BaseT: 2-Pair UTP/STP Cat. 3, 4, 5 Cable  
 EIA/TIA-568 100-ohm (100m)  
 100BaseTX: 2-Pair UTP/STP Cat. 5 Cable  
 EIA/TIA-568 100-ohm (100m)

### Fiber Parameters

Fiber Core: Multi-Mode (62.5/125um ~ 50/125um)  
 Single-Mode (9/125um ~ 10/125um)

Wavelength: 1310nm

Fiber Distance: Multi-Mode Fiber 2Km  
 Single-Mode Fiber 30Km

### Link Loss Forward

TX → Fiber: If TX port link down, will force Fiber port to link down  
 Fiber → TX: If Fiber port link down, will force TX port to link down

### DIP Switch

DIP 1: ON = Enables Port/Power Alarm

OFF = Disables Port/Power Alarm

DIP 2: ON = Enables Link Loss Forward & Link-Fault-Pass-Through

OFF = Disables Link Loss Forward & Link-Fault-Pass-Through DIP

3: ON = 100BaseFX Half-Mode

OFF = 100BaseFX Full-Mode

DIP 4: ON = Media Mode (100TX to 100FX)

OFF = Switching Mode

### LED

Unit: Power, Power 1, Power 2 (Green), Fault (Red)  
 TX: Link/Act (Green), 100M (Yellow), Feeding Power (Green)  
 Fiber: Link/Act (Green), Full Duplex/Collision (Yellow)

### Power

DC 48V Redundant power

### Power Consumption

3.3 Watts (without PoE), 16.4 Watts (Full Load with PoE)

### Overload Current Protection

Present

### Mechanical

Casing: IP30 Metal Case  
 Dimension (W x H x D): 30 x 140 x 95 mm (1.18 x 5.51 x 3.74 in.)  
 Installation: DIN-Rail/Wall Mountable

### Operation Temperature

Standard: -10° C to 70° C (14° F to 158° F)  
 Wide Operating Temperature: -40° C to 80° C (-40° F to 176° F)

### Operation Humidity

5% to 95% (Non-condensing)

### Storage Temperature

-40° C to 85° C

### EMI

FCC Class A  
 CE EN6100-4-2/EN6100-4-3/EN6100-4-4/EN6100-4-5/EN6100-4-6/  
 EN6100-4-8/EN6100-4-11/EN6100-6-2/EN6100-6-4

### Safety

UL, cUL, CE EN60950-1

### Stability Testing

Shock: IEC60068-2-27  
 Free Fall: IEC60068-2-32  
 Vibration: IEC60068-2-6

### Warranty

5-Year Warranty

## Ordering Information

IMP-100A-M  
 IMP-100A-S3  
 IMP-100A-M-T  
 IMP-100A-S3-T

Industrial PoE Media Converter, Multi-Mode Fiber, SC, 2 Km  
 Industrial PoE Media Converter, Single-Mode Fiber, SC, 30 Km  
 Industrial PoE Media Converter, Multi-Mode Fiber, SC, 2 Km, Wide Operatng Temperature Industrial  
 PoE Media Converter, Single-Mode Fiber, SC, 30 Km, Wide Operating Temperature

### Optional Accessories

CBF-SC01ST-MD  
 CBF-SC01SC-MD  
 CBF-SC01SC-SS  
 AD-SCM-STF-M  
 AD-SCM-STF-S

SC to ST Multi-Mode, Duplex Fiber Cable (1 Meter)  
 SC to SC Multi-Mode, Duplex Fiber Cable (1 Meter)  
 SC to SC Single-Mode, Simplex Fiber Cable (1 Meter)  
 SC (Male) to ST (Female) Duplex Adapter (Multi-Mode)  
 SC (Male) to ST (Female) Duplex Adapter (Single-Mode)