

FEATURE HIGHLIGHTS



- Supports 802.3af (PoE), 802.3at (PoE+)
- Up to 30W PoE power available
- Dedicated 12VDC power input
- Supports Mode A and Mode B, DIP-Switch selectable
- 2x 10/100/1000 BASE-T(X) ports (data in, data + PoE out)
- IP30 aluminum with DIP-Rail / Wall mount (optional)
- Operating range of -40°C to 75°C
- EN 62368-1 and IEC 62368-1 certified
- Strong EMC protection, up to Level 4

PRODUCT DESCRIPTION

Multi-Protocol support

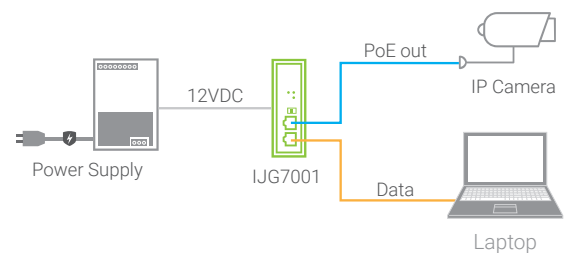
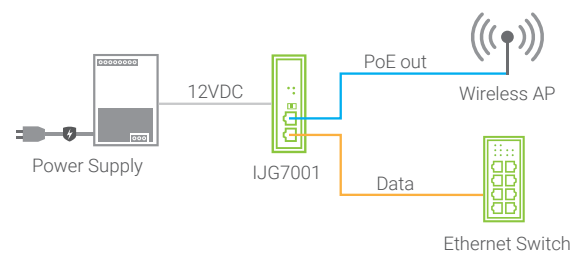
Power over Ethernet is a convenient tool to simplify industrial network and IoT setups, and is now widely utilized in end devices such as wireless APs or IP cameras. The IJG7001 PoE injector supports IEEE 802.3at (PoE+) as well as the legacy IEEE 802.3af (PoE), so you can provide PoE power to virtually any device.

Mode A and Mode B selection

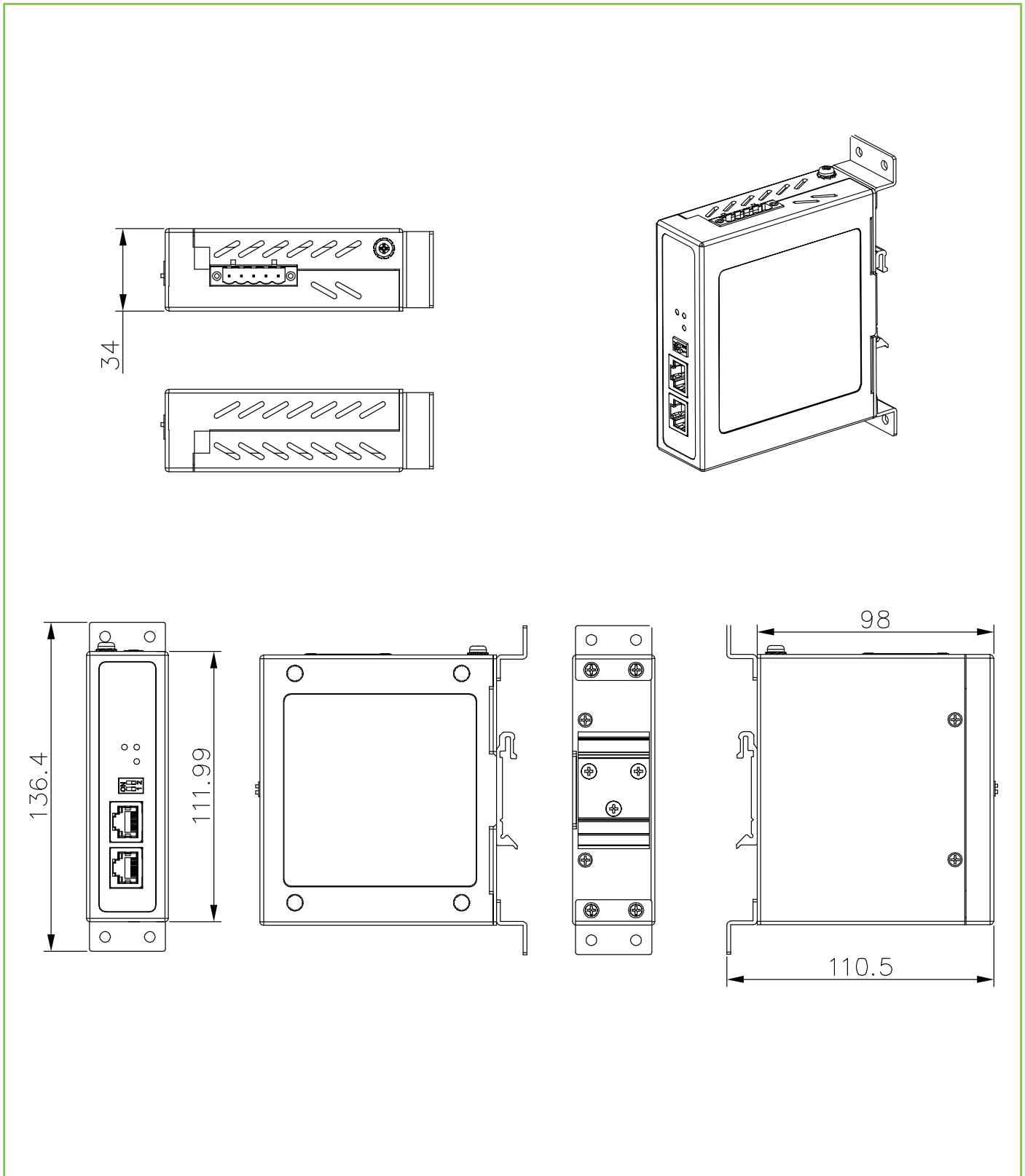
IJG7001 supports both Mode A and Mode B for 802.3af/at. Say goodbye to the hassle of finding the model type you need, and simply adjust IJG7001's DIP-Switch setting according to your device.

Durable hardware

With strong EMC protection and a wide operating range, IJG7001 can be installed on machine-side to reduce the cost of power supply equipment and thus the overall cost of ownership.



DIMENSIONS & LAYOUT



SPECIFICATIONS

| Technical Specifications | |
|---------------------------|---|
| Product | IJG7001 |
| Ethernet | |
| Compliance | IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3af for Power-over-Ethernet (PoE, max 15.4W) IEEE 802.3at for Power-over-Ethernet (PoE+, max 30.0W) |
| PoE modes | Mode A/ Mode B DIP-switch selectable Mode A: PoE power through data pins (1,2,3,6) Mode B: PoE power through spare pins (4,5,7,8) |
| RJ 45 Transmission Rate | 10/100/1000 Mbps |
| Auto MDI/MDI-X | Yes |
| Power | |
| PoE Voltage Booster | Yes (Max support 30W) |
| Input Voltage | 12 VDC (power limitations) |
| Input Current | Max 3.6A @12VDC |
| Max. Power Consumption | 30W |
| LED | |
| Indicators | P1, P2, PoE |
| Physical Characteristics | |
| Housing | IP30 metal housing |
| Dimension (W x H x D) | 32 x 110 x 90 mm |
| Weight | 340g |
| Installation | DIN-Rail , Wall mount (optional kit) |
| Environmental Limits | |
| Operating Temperature | -40°C to +75°C (-40°F to +167°F) |
| Storage Temperature | -40°C to +85°C (-40°F to +185°F) |
| Ambient Relative Humidity | 5% to 95% (Non-condensing test @55°C) |

REGULATORY APPROVALS

| Regulatory Approvals | | | | |
|----------------------|--|-------------------|---------------------|---|
| Safety | EN60950-1, EN62368-1 | | | |
| EMC | FCC Part 15, Subpart B, Class A EN 55032:2015+AC:2016 Class A, EN 61000-3-2:2014 Class A, EN 61000-3-3:2013, EN 61000-6-4:2007+A1:2001, EN 55024:2010+A1:2015, EN 61000-6-2:2005+AC:2005 | | | |
| Test | Item | Value | Level | |
| IEC 61000-4-2 | ESD | Contact Discharge | ±6kV | 3 |
| | | Air Discharge | ±8kV | 3 |
| IEC 61000-4-3 | RS | 80-1000MHz | 10(V/m) | 3 |
| | | 1. 4-2.0GHz | 3(V/m) | 3 |
| | | 2. 0-2.7GHz | 10(V/m) | 3 |
| IEC 61000-4-4 | EFT | DC Power Port | ±4.0KV | 4 |
| | | Signal Port | ±2.0KV | 4 |
| IEC 61000-4-5 | Surge | DC Power Port | Line-to-Line±2.0kV | 4 |
| | | DC Power Port | Line-to-Earth±4.0kV | 4 |
| | | Signal Port | Line-to-Earth±3.0kV | 3 |
| IEC 61000-4-6 | CS | 0.15-80MHz | 10 V rms | 3 |
| IEC 61000-4-8 | PfMF | Enclosure | 10 A/m | 3 |
| IEC 61000-4-11 | DIP | AC Power Port | - | A |
| Shock | MIL-STD-810F Method 516.5 | | | |
| Drop | MIL-STD-810F Method 516.5 | | | |
| Vibration | MIL-STD-810F Method 514.5 C-1 & C-2 | | | |
| RoHS | Yes | | | |
| MTBF | 72.23 years | | | |
| Warranty | 5 years | | | |

ORDERING INFORMATION

Ordering Information

| Model Name | Part Number | RJ45 Ports | SFP slots | PoE | 12V PoE booster |
|------------|-----------------|------------|-----------|-----|-----------------|
| IJG7001 | 1P1IJG70010001G | 2 | 0 | 1 | Yes |

Optional Accessories

| Type | Model name | Part Number | Description |
|------------|----------------|-----------------|-------------------------|
| Wall Mount | Wall Mount set | 70100000000052G | Aluminum wall mount kit |