



## IEEE 802.3bt Gigabit 60W PoE++ Injector

GP-102IT

### FEATURES

- Complies with IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt Power over Ethernet (PoE) Standards.
- Adds PoE capability to a non-PoE Ethernet switch or router.
- Gigabit LAN ports provide high-speed connectivity.
- Supports PoE Powered Device (PD) up to 60W.
- PoE short circuit protection to safeguard network devices.
- Delivers power and data to PoE device from up to 100 meters (328 feet) over a single Ethernet cable.
- Reduces installation and equipment costs.
- Easy plug-and-play desktop or wall-mounted installation.

### OVERVIEW

The Edimax GP-102IT is a Power over Ethernet (PoE) injector that not only delivers a cost-effective solution for power distribution, but also provides a seamless way of deployment on the existing LAN infrastructure. With the use of power injectors, DC power of up to 60W based on the IEEE 802.3bt standard and the data that comes from a non-PoE switch or router are merged together and then transmitted to the remote IEEE 802.3af/at/bt compliant products located without power outlet through the Ethernet cabling. Hence, the easy plug-and-play GP-102IT Gigabit PoE++ injector preserves your investment in hardware upgrade without the need for spending on extra PoE switches and deploying power cables.

### IEEE 802.3af/at/bt Power over Ethernet Standard

Because of adding the capability of IEEE 802.3af/at/bt Power over Ethernet (PoE) to a non-PoE Ethernet switch or router, the GP102IT can directly be connected to any IEEE 802.3af/at/bt end-nodes such as PTZ (Pan, Tilt & Zoom) /speed dome IP cameras, color touch-screen Voice over IP (VoIP) telephones, multi-channel wireless LAN access points, digital signage, information kiosk, POS system, and thin client where the IEEE 802.3af/at/bt in-line PoE port is supported.

### Higher Cost Efficiency and Easy Installation

The Power over Ethernet technology enables the Ethernet wire to carry both data and power. Thus, the GP-102IT reduces the need for cable installation and eliminates the need for extension cords, electrical wall outlets, ceiling or any remote, unreachable place for the PoE enabled devices with easy plug-and play installation. All In all, it lowers the installation costs and simplifies the deployment effort.

### Flexible & Reliable Power Supply

Offering the optional solution for PoE enable devices, the GP-102IT is the perfect addition to existing non-PoE network infrastructures or retrofit projects. Featuring PoE short circuit protection and over circuit protection to safeguard network devices and protect against damage. Supplying the PoE power of up to 60 watts through the four pairs of standard Cat. 5e/Cat. 6 Ethernet cabling.

**PoE Standards and Powered Devices (PDs) Supported**

The GP-102IT Gigabit PoE++ injector complies with IEEE 802.3bt (PoE++), IEEE 802.3at (PoE+) and IEEE 802.3af (PoE) Standards and supports various PoE devices (PDs) up to 60W.

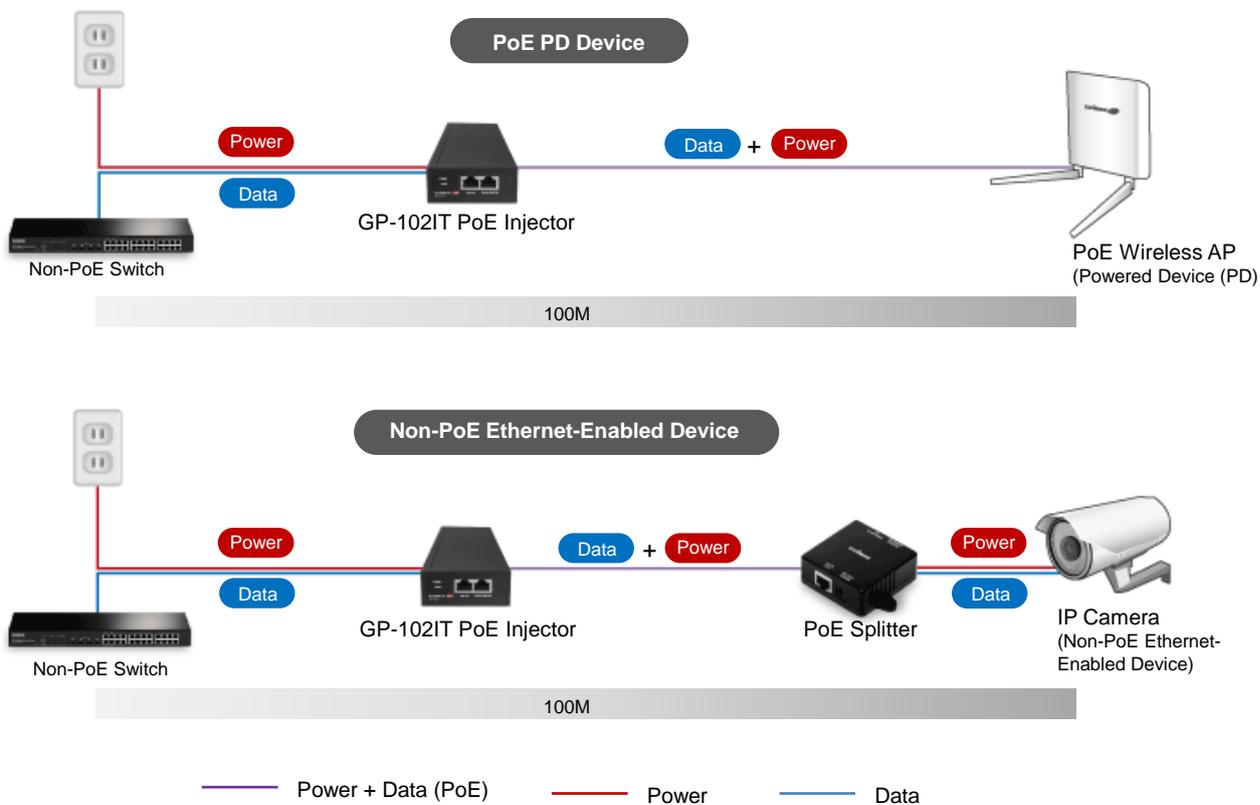
**PoE 802.3af** Up to **15.4W**  
 802.11n Access Point, Biometric Access Control, IP Phone, Thin Client

**PoE+ 802.3at** Up to **30W**  
 802.11n High Power AP, Alarm System, PTZ/Speed Dome IP Camera, Video IP Phone, RFID Reader

**PoE++ 802.3bt** Up to **60W**  
 802.11ac/ax Access Point, Access Control, Information Kiosk, Laptop Computers, Nurse Call, Point of Sales Reader, PTZ/Speed Dome IP Camera

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**APPLICATION DIAGRAM**



## SPECIFICATIONS

HARDWARE	
Ports	<ul style="list-style-type: none"> <li>• 1 x RJ-45 10/100/1000Base-T Input Port</li> <li>• 1 x RJ-45 10/100/1000Base-T PoE Output Port</li> </ul>
LED Indicators	AC Power (PWR) PoE Power
Power Input	100-240V AC, 50-60Hz, 1.5A
Mounting	Desktop/Wall
Housing	Metal
Fan	Fanless
Dimensions	73(W) x 154(D) x 36(H) mm
Weight	568g
POWER OVER ETHERNET	
Standard	IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt
Power Output	DC 54V/1.67A, up to 60W
Pin Assignment	1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 60W PoE++ power
Short Circuit Protection	Yes
Over Circuit Protection	Yes
PoE PD Auto Detection	Yes
OTHERS	
Standard	<ul style="list-style-type: none"> <li>IEEE 802.3 10BaseT Ethernet</li> <li>IEEE 802.3u 100BaseTX Fast Ethernet</li> <li>IEEE 802.3ab 1000BaseT Gigabit Ethernet</li> <li>IEEE 802.3af Power Over Ethernet (PoE)</li> <li>IEEE 802.3at Power Over Ethernet Plus (PoE+)</li> <li>IEEE 802.3bt 4-Pair Power Over Ethernet Type 3 (PoE++)</li> </ul>
Certification	CE, FCC
Environmental Condition	<ul style="list-style-type: none"> <li>• Operating Temperature: 32~104°F (0~40°C)</li> <li>• Storage Temperature: -4~158°F (-20~70°C)</li> <li>• Operating Humidity: 10~90% (NonCondensing)</li> <li>• Storage Humidity: 5~90% (NonCondensing)</li> </ul>
Package Content	<ul style="list-style-type: none"> <li>• Injector</li> <li>• Quick Installation Guide</li> <li>• Power Cord</li> <li>• Robbert Pads</li> <li>• Screws</li> </ul>