



## IEEE 802.3bt 2.5 Gigabit 90W PoE++ Injector

GP-203IT

### 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
- 2.5 Gigabit LAN ports provide high-speed connectivity
- Supplies PoE output 95W to ensure Powered Device (PD) is able to be powered up to 90W
- 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-203IT 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 90W 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-203IT 2.5 Gigabit PoE++ injector preserves your investment in hardware upgrade without the need to purchase extra PoE switches and deploy 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 GP-203IT can directly be connected to any IEEE 802.3af/at/bt end-nodes such as speed dome IP cameras, Digital Signage, color touch-screen Voice over IP (VoIP) telephones, multi-channel wireless LAN access points, information kiosk, POS system, and thin client where the IEEE 802.3af/at/bt in-line PoE port is supported.

### Cost Efficiency and Easy Installation


The Power over Ethernet technology enables the Ethernet wire to carry both data and power. Thus, the GP-203IT 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-203IT 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 90 watts through the four pairs of standard Cat. 5e/Cat. 6 Ethernet cabling.

## PoE Standards and Powered Devices (PDs) Supported

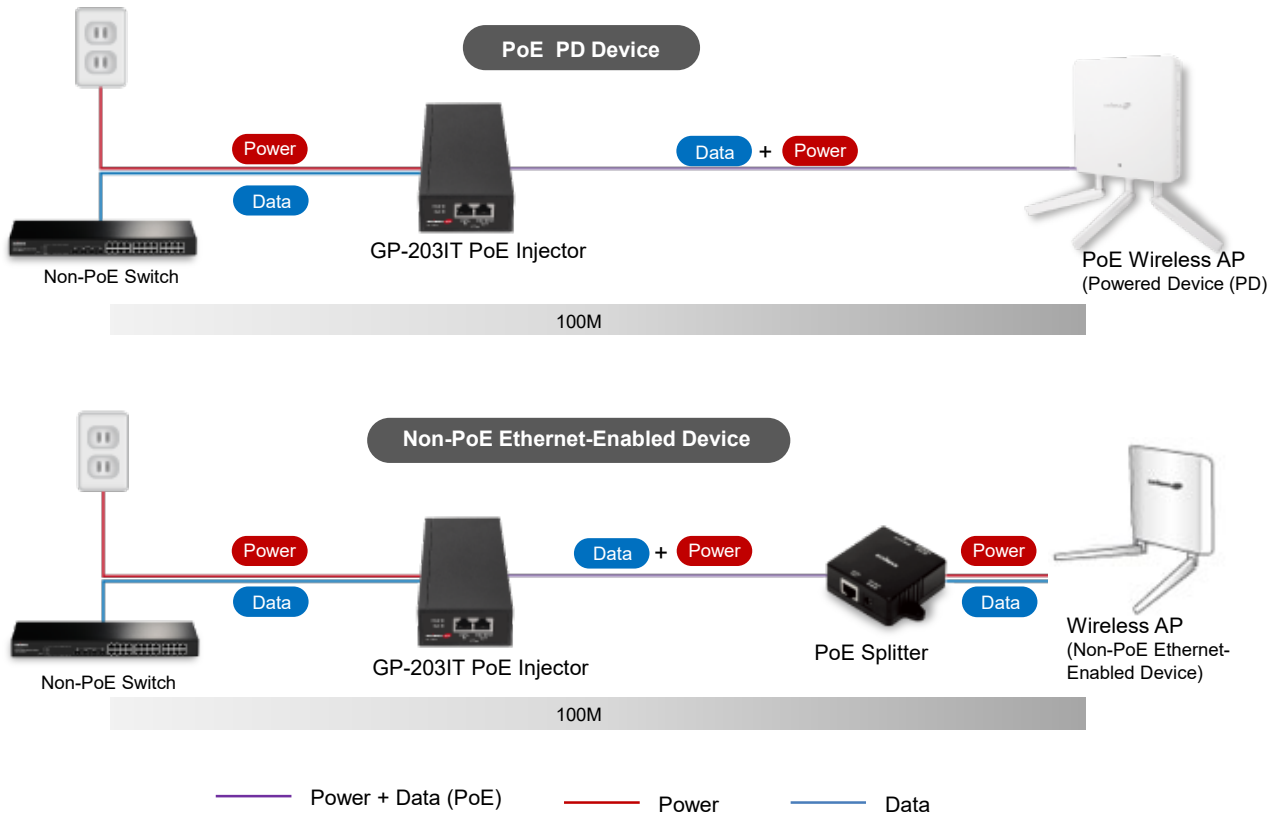
The GP-203IT 2.5 Gigabit PoE++ injector complies with IEEE 802.3bt (PoE++), IEEE 802.3at (PoE+) and IEEE 802.3af (PoE) Standards and supports various PoE devices (PDs) up to 90W.



**IEEE802.3bt 2.5 Gigabit 90W PoE++ Injector GP-203IT**

Standard	Power	Supported Devices
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 90W	802.11ac/ax Access Point, Digital Signage, Information Kiosk, POS System, PTZ/Speed Dome IP Camera

## APPLICATION DIAGRAM



Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice. Copyright © 2023 Edimax Technology Co. Ltd. All rights reserved. [www.edimax.com](http://www.edimax.com) 2

**SPECIFICATIONS**

<b>HARDWARE</b>	
Ports	<ul style="list-style-type: none"> <li>• 1 x RJ-45 10/100/1000/2500Base-T input port</li> <li>• 1 x RJ-45 10/100/1000/2500Base-T PoE output port</li> </ul>
LED Indicators	AC Power (PWR) PoE Power
Power Input	100-240V AC, 50-60Hz, 1.5A
Power Consumption	95W (Max.)
Mounting	Wall-mount
Housing	Metal
Fan	Fanless
Dimensions	73(W) x 154(D) x 36(H) mm (2.87 (W) x 6.06 (D) x 1.41 (H) inches)
Weight	601g (1.32lb)
<b>POWER OVER ETHERNET</b>	
Standard	IEEE 802.3af (PoE) IEEE 802.3at (PoE+) IEEE 802.3bt (PoE++)
Power Budget	90 Watt
Pin Assignment	Pins 3, 6, 4, 5 (+), Pins 1, 2, 7,8 (-) Output Power Voltage: 54V DC
Short Circuit Protection	Yes
Over Circuit Protection	Yes
PoE PD Auto Detection	Yes
<b>OTHERS</b>	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3an 2.5GBase-T Gigabit Ethernet IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet Plus (PoE+) IEEE 802.3bt 4-Pair Power over Ethernet Type 4 (PoE++)
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>
Certification	CE, FCC