



IEEE 802.3bt Gigabit 90W PoE++ Injector

GP-103IT

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
- Supply 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-103IT 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-103IT 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 GP-103IT 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, digital signage, 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-103IT 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.

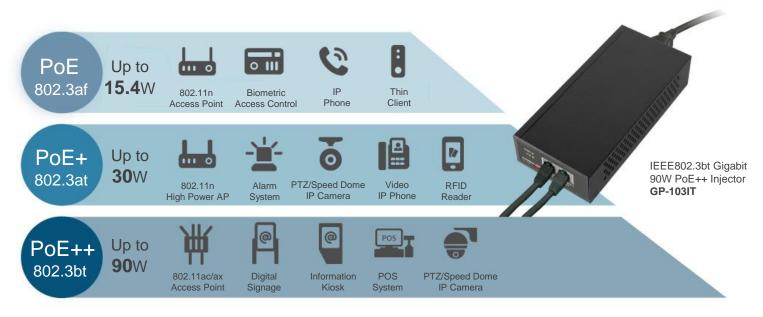
Flexible & Reliable Power Supply

Offering the optional solution for PoE enable devises, the GP-103IT 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.

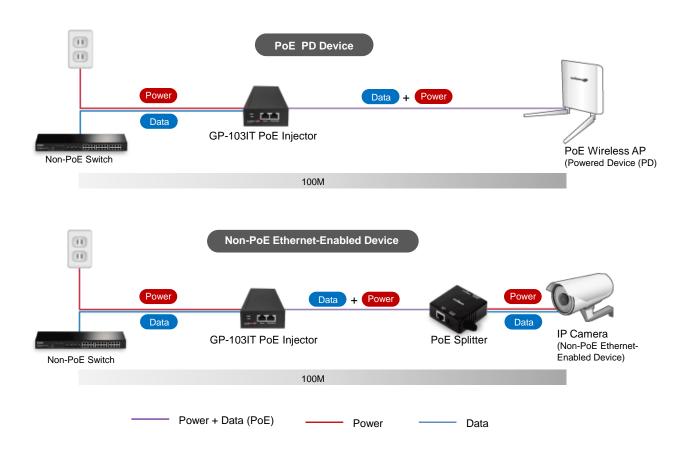
GP-103IT

PoE Standards and Powered Devices (PDs) Supported

The GP-103IT 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.



APPLICATION DIAGRAM





GP-103IT

SPECIFICATIONS

Ports1 x RJ-45 10/100/1000Base-T Input Port 1 x RJ-45 10/100/1000Base-T PoE Output PortLED IndicatorsAC Power (PWR) PoE PowerPower Input100-240V AC, 50-60Hz, 1.5APower Consumption95W (Max.)Power Consumption95W (Max.)MountingWall-mountMountingWall-mountMountingMetalFanFanlessDimensions73(W) x 154(D) x 36(H) mmPower Over ETHERNETEalessPower Budge90WattPower Budge90WattPower Budge90WattPohot Circuit ProtectionYesPoe PD Auto DetectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOther EXESURATIONIEEE 802.31 (DBaseT Ethernet IEEE 802.331 OBAseT Ethernet IEEE 802.331 Power Over Ethernet Piece PowerStandardIEEE 802.31 (DBaseT Ethernet IEEE 802.331 Power Over Ethernet Piece PowerEEE 802.331 Power Over Ethernet Piece PowerIEEE 802.331 Power Over Ethernet Piece PowerEEE 802.331 Power Over Ethernet Piece Poece IEEE 802.331 Power Over Etherne	HARDWARE	
LED indicatorsPoE PowerPower Input100-240V AC, 50-60Hz, 1.5APower Consumption95W (Max.)MountingWall-mountMountingWall-mountHousingMetalFanFanlessDimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOVER ETHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3at 100BaseTX Fast Ethernet IEEE 802.3at 100BaseTX Fast Ethernet IEEE 802.3at 000BaseTX Fast Ethernet IEEE 802.3at 000BaseTX Fast Ethernet IEEE 802.3at Power Over Ethernet PIOE) IEEE 802.3at Power Over Ethernet PIOE IEEE 802.3at 000BaseTX Fast Ethernet IEEE 802.3at Power Over Ethernet PIUS (PoE+) IEEE 802.3at Power Over Et	Ports	
Power Consumption95W (Max.)MountingWall-mountHousingMetalFanFanlessDimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3 at Power Over Ethernet 1 IEEE 802.3 at Power Over E	LED Indicators	
MountingWall-mountHousingMetalFanFanlessDimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOVer Circuit ProtectionYesOTHERSIEEE 802.3a 10BaseT Ethernet IEEE 802.3at Power Over Ethernet PoE) IEEE 802.3af Power Over Ethernet PoE) IEEE 802.3af Power Over Ethernet PoE) IEEE 802.3af Power Over Ethernet Pils (PoE+) IEEE 802.3af Power Over Ethernet Type 4 (PoE++)• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: 32~104°F (0~40°C)	Power Input	100-240V AC, 50-60Hz, 1.5A
Housing HousingMetalFanFanlessDimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPower Budget90Watt1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesPoE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3at 100BaseTX Fast Ethernet IEEE 802.3at 100BaseTX Fast Ethernet IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3bt 4-Pair Power Over Ethernet Plus (PoE++)EnvironmentalStorage Temperature: 32~104°F (-0~40°C) · Operating Temperature: 32~104°F (-0~40°C) · Operating Humidity: 10~90% (NonCondensing) · Storage Humidity: 5~90% (NonCondensing)	Power Consumption	95W (Max.)
FanFanlessDimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3at 100BaseTX Fast Ethernet IEEE 802.3at 100BaseT Gigabit Ethernet IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (-0-40°C) • Operating Temperature: 32~104°F (-0-40°C) • Operating Humidity: 10-90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Mounting	Wall-mount
Dimensions73(W) x 154(D) x 36(H) mmWeight589gPOWER OVER ETHERNETStandardIEEE 802.3at, IEEE 802.3at and IEEE 802.3btPower Budget90WattPower Budget90Watt1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOther Ethernet IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseT StantardIEEE 802.3 10BaseT Ethernet IEEE 802.3at 100BaseT Gigabit Ethernet IEEE 802.3at Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Type 4 (PoE++) IEEE 802.3at A-Pair Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: 32~104°F (20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Housing	Metal
Weight589gPOWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOVer Circuit ProtectionYesOther SIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Fan	Fanless
POWER OVER ETHERNETStandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPower Budget1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesOver Circuit ProtectionYesOther Circuit ProtectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3u 100BaseT Gigabit Ethernet IEEE 802.3at Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at 0.00Preature: 32~104°F (0~40°C) • Storage Temperature: 4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Dimensions	73(W) x 154(D) x 36(H) mm
StandardIEEE 802.3af, IEEE 802.3at and IEEE 802.3btPower Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesPoE PD Auto DetectionYesOTHERSStandardIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3at Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE++) IEEE 802.3at Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Weight	589g
Power Budget90WattPin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesPoE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3at Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	POWER OVER ETHERNET	Г
Pin Assignment1/2,3/6 for IEEE802.3at/af 1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesPOE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 2.3at Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE+) IEEE 802.3at Power Over Ethernet Type 4 (PoE++)Environmental Condition• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Standard	IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt
Pin Assignment1/2,3/6 and 4/5,7/8 for 90W PoE++ powerShort Circuit ProtectionYesOver Circuit ProtectionYesPoE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT EthernetStandardIEEE 802.3u 100BaseTX Fast EthernetIEEE 802.3u 100BaseTX Fast EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3bt 4-Pair Power Over Ethernet Type 4 (PoE++)• Operating Temperature: -4~158°F (-20~70°C)• Operating Humidity: 10~90% (NonCondensing)• Storage Humidity: 5~90% (NonCondensing)• Storage Humidity: 5~90% (NonCondensing)	Power Budget	90Watt
Over Circuit ProtectionYesPoE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 1000BaseT 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• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Pin Assignment	
PoE PD Auto DetectionYesOTHERSIEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3ab 1000BaseT 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• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	Short Circuit Protection	Yes
OTHERSIEEE 802.3 10BaseT EthernetIEEE 802.3 100BaseT EthernetIEEE 802.3u 100BaseT Gigabit EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3ab Power Over Ethernet (PoE)IEEE 802.3at Power Over Ethernet Plus (PoE+)IEEE 802.3bt 4-Pair Power Over Ethernet Type 4 (PoE++)Operating Temperature: 32~104°F (0~40°C)Storage Temperature: -4~158°F (-20~70°C)Operating Humidity: 10~90% (NonCondensing)Storage Humidity: 5~90% (NonCondensing)	Over Circuit Protection	Yes
IEEE 802.3 10BaseT EthernetStandardIEEE 802.3u 100BaseTX Fast EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3ab 1000BaseT Gigabit EthernetIEEE 802.3at Power Over Ethernet (PoE)IEEE 802.3at Power Over Ethernet Plus (PoE+)IEEE 802.3bt 4-Pair Power Over Ethernet Type 4 (PoE++)• Operating Temperature: 32~104°F (0~40°C)• Storage Temperature: -4~158°F (-20~70°C)• Operating Humidity: 10~90% (NonCondensing)• Storage Humidity: 5~90% (NonCondensing)	PoE PD Auto Detection	Yes
StandardIEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT 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• Operating Temperature: 32~104°F (0~40°C) • Storage Temperature: -4~158°F (-20~70°C) • Operating Humidity: 10~90% (NonCondensing) • Storage Humidity: 5~90% (NonCondensing)	OTHERS	
 Environmental Storage Temperature: -4~158°F (-20~70°C) Operating Humidity: 10~90% (NonCondensing) Storage Humidity: 5~90% (NonCondensing) 	Standard	IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3af Power Over Ethernet (PoE) IEEE 802.3at Power Over Ethernet Plus (PoE+)
Certification CE, FCC		 Storage Temperature: -4~158°F (-20~70°C) Operating Humidity: 10~90% (NonCondensing)
	Certification	CE, FCC

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 © 2020 Edimax Technology Co. Ltd. All rights reserved.



Edimax Technology Co., Ltd No. 278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan Email: sales@edimax.com.tw Edimax Technology Europe B.V. Fijenhof 2, 5652 AE Eindhoven, The Netherlands Email: sales@edimax.nl Edimax Computer Company 3444 De La Cruz Blvd., Santa Clara, CA 95054, USA Email : sales@edimax.com