

Level VI Energy Efficiency PoE Injector

Datasheet

EN30GT-10



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Document History

Version	Date	Notes
v1.0	2025/09/17	First Version Release

For Whom

This manual is intended for:

Network Engineers

Network Administrators

Field Technicians

1 Product Introduction

1.1 Product Positioning

The EN30GT-10 is a high-performance single-port PoE injector under the PROCET PoE System, designed for efficient power supply and high-speed data transmission in indoor network environments.

It operates with a wide input voltage range of 90–264Vac and delivers a maximum PoE output of 30W fully compliant with IEEE 802.3af/at standards to power diverse devices. Equipped with an intelligent detection chip, it identifies and classifies Powered Devices (PDs) before supplying power, effectively protecting non-PoE equipment from potential damage.

For data transmission, the injector supports up to 10Gbps network speeds, ensuring smooth and high-bandwidth data flow.

Housed in a flame-retardant white plastic enclosure with IP40 protection, the EN30GT-10 features a compact form factor that supports both indoor desktop and wall-mounted installation, making it ideal for space-constrained areas. It enables a maximum transmission distance of 100 meters over Cat5e/Cat6 cabling, suitable for powering and connecting devices like IP cameras, communication equipment, security systems, IoT devices, displays, POS terminals, and information kiosks.

The product holds multiple certifications, including CE, FCC, ERP, US LISTED I.T.E LPS (Certificate No. E487558), ensuring reliability and compliance with global safety standards. Its power pins follow the configuration of 4/5 (+) and 7/8 (-) for stable power delivery.

1.2 Product Features

Energy Efficiency Class VI: Compliant with ERP energy efficiency standards, featuring low no-load power consumption ($\leq 1.5W$) and high efficiency (over 85%).

Wide input voltage: Supports input within the full voltage range of 90-264Vac.

High Power Supply: Delivers up to 30W (52Vdc, 0.58A) power, fully compatible with IEEE 802.3af/at standards to meet the power needs of various PDs.

User-Friendly: Automatically detects and identifies powered devices, matches the required output power, plug-and-play with no configuration needed.

10Gbps Ultra-Fast Data Transmission: Complies with multiple IEEE 802.3 protocols to enable up to 10Gbps network speeds, suitable for high-bandwidth applications.

Compact Size: The compact design allows for easy installation on WLAN access points and IP cameras.

Protection Features: Over-current, over-voltage, over-temperature, and short-circuit protection.

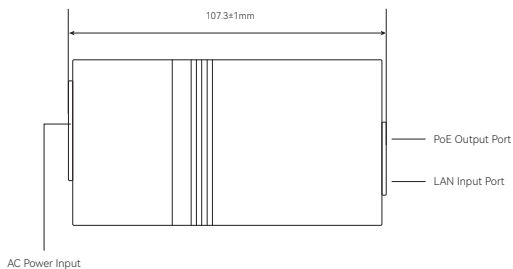
Safety: Low-power devices receive only the power they require. Automatically detects and protects non-standard Ethernet terminals.

Limited Power Source: LPS.

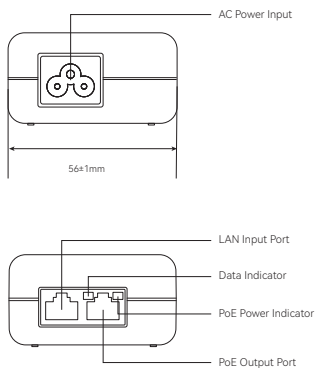
Certifications: Complies with CE, FCC, and ERP certifications.

1.3 Product Appearance

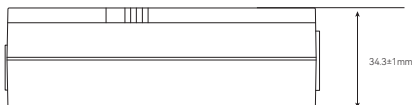
• Top View



• Front View



- Side View



Port Indicator Lights (including all product indication states), with status descriptions as follows:

Item	Status	Description
Data Indicator	Solid Yellow	Data Connection
	Blinking Yellow	Data is being transmitted
	Off	The port is not connected to the device or the connection fails.
PoE Indicator	Solid Green	PoE power supply.
	Blinking Green	Detecting load.
	Off	The port is not connected to the device or the connection fails.

2 Product Specifications

2.1 Electrical Parameters

Item	EN30GT-10
Ports	AC Input *1 PoE*1 LAN*1
PoE Std.	IEEE802.3af/at Power over Ethernet
Input	90-264Vac
PoE Out.	52Vdc 0.58A 30W Max
Power Pins	4/5(+),7/8(-)
EER	≥85%
NLPC	≤1.5W
Surge Protection	AC Port: Common Mode: 2KV Differential Mode: 1KV
Data Rate	100/1000Mbps 2.5G/5G/10Gbps

2.2 PoE Characteristics

Item	EN30GT-10
PoE Std.	IEEE802.3af/at Power over Ethernet
PoE Out.	52Vdc 0.58A 30W Max
Power Pins	4/5(+),7/8(-)
Data Rate	100/1000Mbps 2.5G/5G/10Gbps
Network Protocol	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-Tx Fast Ethernet IEEE802.3ab 1000Base-T Gigabit Ethernet IEEE802.3bz 2.5/5/10GbE NBASE-T

2.3 Physical Characteristics

Item	EN30GT-10
Enclosure	White Plastic
Size	107.3mm * 56mm * 34.3mm
Weight	147g
IP Rate	IP40

2.4 Environmental Parameters

Item	EN30GT-10
Op. Temp	0°C to 40°C
Op. Humid.	20%-80%, non - condensing
Op. Altitude	Below 5000 meters
Stor. Temp.	-20°C to 70°C
Stor. Humid.	10%-90%, non - condensing

2.5 Compliance Certifications

Safety Standard: IEC 60950-22 (Information Technology Equipment Safety)

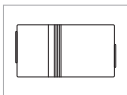
EMC Standards: CE、FCC (Electromagnetic Compatibility)

Environmental Standard: RoHS (Restriction of Hazardous Substances)

3 Installation Preparation

3.1 Items Required for Installation

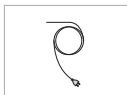
When installing the device, the following items are required. These items are assembled in the product packaging box.



EN30GT-10



User Manual

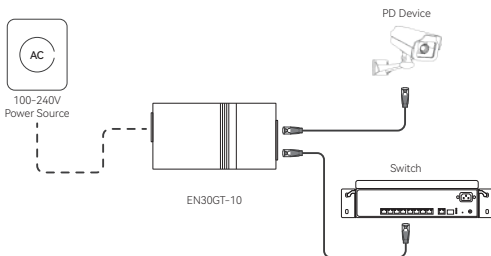


Power Cord

3.2 Equipment Inspection

Before installing the device, please connect the device to the power supply first to check whether it can operate normally.

Connect the power supply using the AC port, connect the LAN port to a switch to provide a network. When using standard PoE power - supply, connect the PoE port to a PD device that supports the PoE power - supply function, such as a PoE - enabled camera, as shown in below.



Notice:



- Do not install the device while it is powered on.
 - Please make sure to read the user manual carefully before using the device and operate it according to the instructions.
 - Do not place the device on an unstable surface such as a shaky box or table, as it may fall and become seriously damaged.
 - Ensure that there is sufficient space (at least 5 cm) around the device to allow for proper heat dissipation.
 - Do not place heavy objects on top of the device.
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