SPECIFICATION FOR APPROVAL

CUSTOMER	•	
PRODUCT NAME	:	30W High-power PoE Splitter
PRODUCT MODEL	:	PD26 / PD26G / PD26-2.5G
BRAND	:	TST (OEM/ODM)
DATE	:	2024 / 06 / 26

DRAWING			CUSTOMER APPROVE
DESIGNED	CHECKED	APPROVED	
VANNE	YOUTRONG	Mark	
DATE 2024 / 06 / 26		06 / 26	Please return the visa after
DATE	2024 / 00 / 20		confirmation, thank you!

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深圳市拓视盾科技有限公司 Shenzhen Tstone Technology Co.,Ltd

PRODUCT: 30W High-power PoE Splitter

MODEL: PD26 / PD26G / PD26-2.5G



What Is PoE

POE (Power Over Ethernet) refers to the technology that can transmit data signals for some IP-based terminals (such as IP phones, wireless LAN access point APs, IP cameras, etc.) without any changes to the existing Ethernet Cat.5 cabling infrastructure, and can also provide DC power supply for such devices.

A complete POE system consists of two parts: Power Sourcing Equipment (PSE) and Powered Devic e (PD). The PSE device is the device that powers the Ethernet client device and is also the manager of the entire POE (Power-over-Ethernet) process. The PD device is the PSE load that receives the power supply, that is, the client device of the POE system. Based on the IEEE 802.3af/at standard, the two establish information about the connection status, device type, power consumption level and other aspects of the PD of the power receiving device, and use this as the basis for PSE to supply power to the PD through Ethernet.



The Principle of POE

The standard Category 5 cable has four twisted pairs, but only two pairs are used in 10M BASE-T a nd 100M BASE-T. IEEE80 2.3af/at allows two uses: (1) When the idle pin is used for power supply, pin s 4 and 5 are connected as the positive pole, and pins 7 and 8 are connected as the negative pole. (2) P in 1 and pin 2 are connected as the positive pole, and pin 3 and 6 are connected as the negative pole.

The Advantages of POE

- 1. Save labor and material costs. Compared with the traditional wiring method of weak current engineerin g, POE only needs to install a network cable to make the IP equipment work normally. In many cases, P OE is more advantageous in the places where it is difficult to deploy AC power. As the number of netw ork devices in the system increases, the use of POE eliminates the need for local power supply for the e quipment, which will greatly reduce deployment costs and simplify their manageability.
- 2. Easy to install and manage. Customers can autonomously and securely mix PoE devices and legacy de vices within the system, and can coexist with existing Ethernet cables. PoE devices are compatible with the management system of existing network devices and can share the management platform with existing network devices.
- 3. Good security. The Power Sourcing Equipment (PSE) in a PoE system will only supply power to the Powered Device (PD) that needs to be powered. Only when the Device that needs to be powered is connected and the protocol is successfully identified, the power supply equipment will have a voltage output and supply power to the powered device, thus eliminating the risk of leakage and short circuit on the line.

Product Introduction

PD26-2.5G is a 30W high-power 2.5G POE splitter, which conforms to the IEEE802.3af/at POE stan dard protocol, with a maximum output power of 30W. It has a transmission rate of 2.5G and is compatible with 10M/100M/1000M adaptive transmission rates.

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PD26-2.5G is a POE signal receiving device, also known as PD device. It is used in the POE syste m, is responsible for receiving POE signals and processing POE signals, and separates DC signals and net

work signals for IP devices. It acts as a bridge, connecting PSE devices and IP devices, so that IP devic

es can work normally in the POE system and be managed by the POE system management platform.

30W High Power POE Splitter is a series of products, the series contains three models:

PD26: 30W High Power 100 Mbit POE Splitter

PD26G: 30W High Power Gigabit POE Splitter

PD26-2.5G: 30W High Power 2.5G POE Splitter

Product Description

The PD26-2.5G has a POE input port, a data output port, and a DC output port. The POE input por

t connects to the PSE device and receives the POE signal from the PSE device. Data output port connect

s to the data interface of the IP device and transmits data to the IP device. The DC Output Port can out

put DC12V MAX2.5A / DC24V MAX1.0A / DC9V MAX3.0A / DC5V MAX4.0A optional to supply po

wer to IP devices. Its transmission rate can reach 2.5G, while compatible with 10M/100M/1000M adaptive

transmission.

The shell of PD26-2.5G is made of high-temperature resistant and environmentally friendly ABS plast

ic material, with a maximum temperature resistance of 100°C. Its tail line length is 21CM, which is conv

enient and easy to connect with various IP equipment. The default DC connector is 5.5*2.1mm, and other

specifications can also be customized, such as 5.5*2.5mm / 4.0*1.7mm / 3.5*1.35mm.

The PD26-2.5G conforms to the IEEE802.3AF/AT POE standard protocol, with a maximum output p

ower of 30W (IEEE802.3AT CLASS4), and can also output 15.4W (IEEE802.3AF CLASS3). Its transmiss

ion rate is 2.5G, and it is compatible with 10M/100M/1000M adaptive transmission. It has an effective tra

nsmission distance of 100 meters and supports 24/7 uninterrupted work. Input wide voltage design DC38-

56V, the default output voltage is DC12V, other voltages are optional.

PD26-2.5G is an isolated POE splitter, the motherboard adopts an isolated design solution, equipped

with high-power isolation transformer. The main board circuit design has lightning protection, short circuit

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protection, overload protection, high temperature protection and other protection functions, EMC parameter s can meet IEC 61000-4-2/3/4/5/6 standards. Products have obtained CE, FC, Rohs and other certifications, selling well in more than 100 countries and regions around the world.

Product Features

- IEEE802.3af/at POE international standard protocol and handshake recognition function
- Input: wide POE voltage DC38-56V
- Output: DC12V MAX2.5A or DC24V MAX1.0A / DC9V MAX3.0A / DC5V MAX4.0A Optional
- 10M/100M/1000M/2.5G adaptive transmission speed
- RJ12+ RJ36- / RJ45+ RJ78- Fully compatible
- Small size, less space, easy to install
- 4KV surge protection
- With overheat protection, overvoltage protection, overload protection, short circuit protection
- The conversion efficiency is over 85%
- EMC complies with IEC 61000-4-2/3/4/5/6 standards
- High temperature resistant and environmentally friendly ABS plastic shell

Specifications

Items	Specifications		
Product Name	30W High-power	POE Splitter	
Product Model	PD26	PD26G	PD26-2.5G
PoE Standard	IEEE802.3af/at		
Input Voltage	POE: DC38-56V		
Output	DC12V MAX2.5A or DC24V MAX1.0A / DC9V MAX3.0A / DC 5V MAX4.0A Optional (Other Voltage can be customized)		
Conversion Efficiency	≧85%		
PoE Pin	RJ12+ RJ36- / R.	J45+ RJ78- Fully comp	atible
Conversion Mode	Isolated		



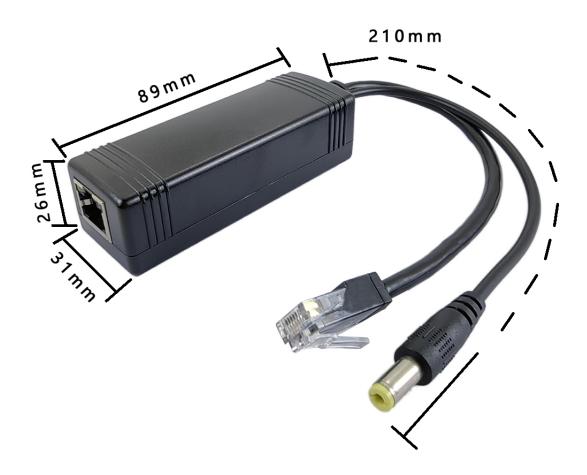
	1014/10014 4 1	1014/10014/100014	100 6/1000 6/10000 6/0 7/0	
Data Rate	10M/100M Adaptive	10M/100M/1000M	10M/100M/1000M/2.5G	
		Adaptive	Adaptive	
Transmission Distance	100 meters			
Surge Protection	4KV			
	Short-circuit Protection			
Circuit Protection	Overcurrent Protection			
	Overvoltage Protection			
	Overheating Protection			
LED L. C.	1* Output Power Indicator			
LED Indicator	1* POE Indicators			
	1* POE Input Port (RJ45 femal)			
Interface	1* Data Output Interface (RJ45 male)			
	1* DC Interface (5.5*2.1mm male)			
Material	ABS plastic mate	ABS plastic material		
Color	Matte black			
Accessories	/			
EMC	IEC 61000-4-2/3/4/5/6			
	-20~60°C For Operating			
Temperature	-30~100°C For Storage			
Humidity	RH95% MAX (Non-condensation)			
	N.W: 64g			
Weight	G.W: 74g			
	Product Dimension:			
	89mm*31mm*26mm + 210mm (tail cable)			
Dimension	Packing Dimension:			
	185mm*46mm*31mm			
Package	White Carton or Plastic Bag			

Product Applications

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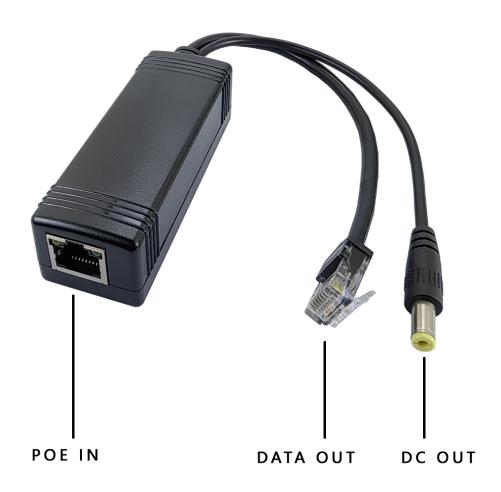
PD26-2.5G is a High-power POE Splitter, specially designed for a variety of non-POE function IP de vices, so that IP devices can work normally in POE system and compatible with the original management platform and management software. It is widely used in CCTV, audio broadcasting system, display, lighting, wireless coverage and other industries. The product has been introduced to the market for many years, and has performed well in the field of POE applications, and has been widely favored and praised by global customers.

Dimensions



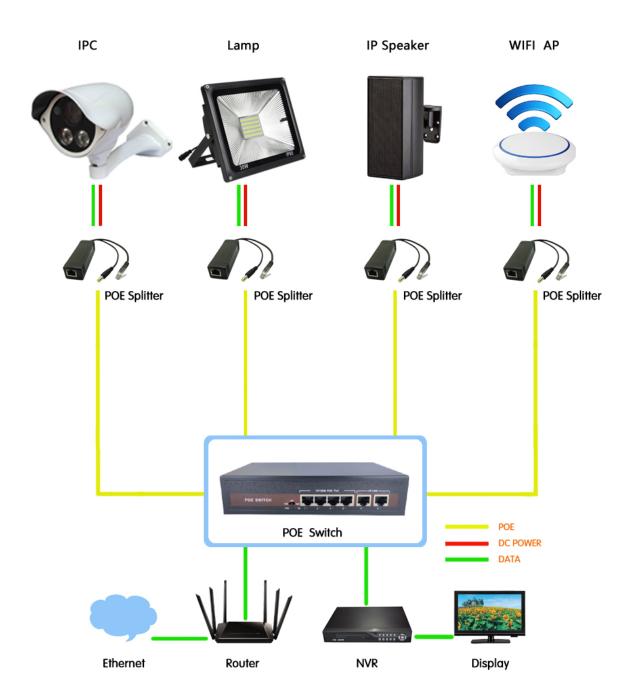


Interface Definition





Application topology





Application Scenarios



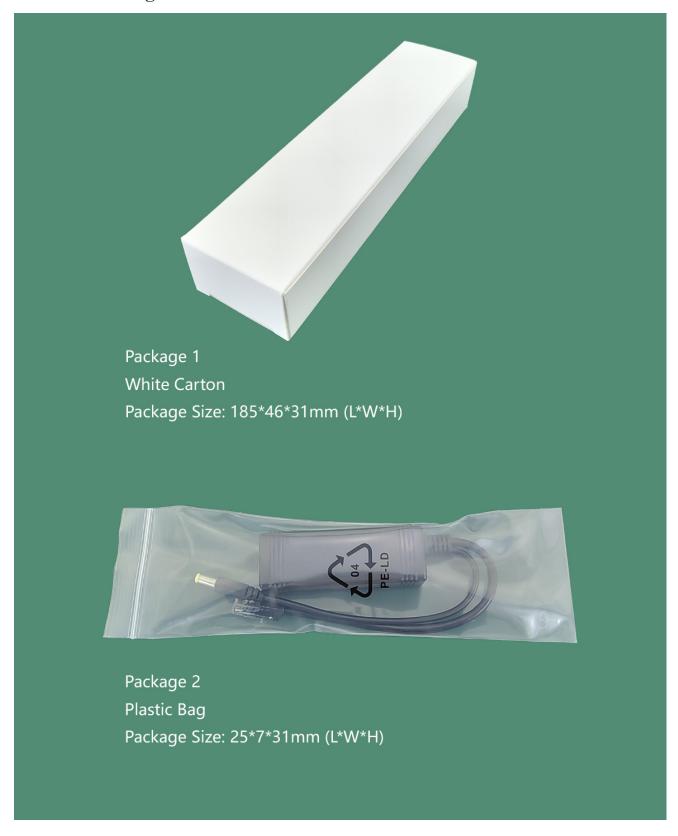


Product Detail





Product Package



	Package List
Items	Quantity
POE Splitter	1
Operation Manual	1