
PSE500 Series
POE Injectors

Datasheet

Shenzhen TG-NET Botone Technology Co., Ltd.

Overview

As the applications of Power over Ethernet have expanded to home users from the IT industry. TG-NET has developed a new Single-Port PoE Injector which meets the requirements of both the IT industry and home users for high wattage output and easy installation. It is a wall-mountable single-port PoE injector with internal power supply in compact housing. Carrying both Ethernet data and power simultaneously, It helps users to utilize just one Ethernet cable to easily install and deploy IP camera, wireless AP or VoIP phone networking in environments where power outlet is hard to find.

Product Appearance

	<p>PSE501-15W</p> <p>"Data" Input Port: 1*10/100 Base-T</p> <p>"PoE (Data+Power)" Output Port: 1*10/100 Base-T</p> <p>IEEE 802.3af</p> <p>1/2(+),3/6(-),(End-Span)</p> <p>Dimensions: 145(L)*65(W)*44.5(H)mm</p>
	<p>PSE501-30W-V2</p> <p>"Data" Input Port: 1*10/100 Base-T</p> <p>"PoE (Data+Power)" Output Port: 1*10/100 Base-T</p> <p>IEEE 802.3af/at</p> <p>1/2(+),3/6(-),(End-Span)</p> <p>Dimensions: 115(L)*62.5(W)*31(H)mm</p>
	<p>PSE501G-30W-V2</p> <p>"Data" Input Port: 1*10/100/1000 Base-T</p> <p>"PoE (Data+Power)" Output Port: 1*10/100/1000 Base-T</p> <p>IEEE 802.3af/at</p> <p>1/2(+),3/6(-),(End-Span)</p> <p>Dimensions: 115(L)*62.5(W)*31(H)mm</p>

Product Features and highlights

■ PoE function

Remote power feeding up to 100m

Supports PoE Power up to 30W for PoE port

IEEE 802.3at Power over Ethernet Plus compliant

Backward compatible with IEEE 802.3af Power over Ethernet

Auto-detection of PoE IEEE 802.3at/af devices from being damaged by incorrect installation

Circuit protection prevents power interference between ports

Circuit Shorting Protection Supported

■ Energy conservation, and low radiation

The POE Injectors uses an energy-saving integrated circuit design to ensure even heat dissipation. Idle ports can enter a sleep mode to further reduce power consumption. Radiation produced by the POE Injectors is within the standard range for electric appliances and causes no harm to the human body.

■ Easy deployment and maintenance free

With concepts of "Easy to install", "Plug and Play" and "Simple troubleshooting" for business and home users, the POE Injectors is an all-in-one designed single-port PoE injector with internal power supply. In the compact size housing, the POE Injectors provides one 110-240V AC input socket on its front panel and two RJ-45 ports (POE port and LAN port) on the rear panel. Simply plug in the Ethernet cables and power cord, and the POE Injectors is ready to provide high speed network communication and high power PoE injector functions simultaneously with no need of software configuration. The

POE Injectors frees the security IP camera and wireless AP deployment from restrictions of power outlet locations and the additional AC wiring. It thus reduces cables and eliminates the need for electrical outlets on the wall, ceiling or any unreachable place, and most of all, it reduces installation time.

Product Specifications

Items	PSE501-15W	PSE501-30W-V2	PSE501G-30W-V2
"Data" Input Port:	1*10/100 Base-T	1*10/100 Base-T	1*10/100/1000 Base-T
"PoE (Data+Power)" Output Port	1*10/100 Base-T	1*10/100 Base-T	1*10/100/1000 Base-T
AC Input Power Socket	1	1	1
PoE Standards	IEEE 802.3af	IEEE 802.3af/at	IEEE 802.3af/at
Power Pin Assignment	1/2(+),3/6(-),(End-Span)		
PoE Power Output	53V DC		
Packet Forwarding Capacity	10M:14880pps/port 100M:148809pps/port 1000M:1488095pps/port		
Operating environment	Operating temperature: 0°C - 50°C Relative humidity: 5%–95% (non-condensing)		
Dimensions	145(L)*65(W)*44.5(H)mm	115(L)*62.5(W)*31(H)mm	115(L)*62.5(W)*31(H)mm
Weight	<200g		
Input Voltage	AC:110~240V/50~60Hz		

Service Features

Items	PSE501-15W	PSE501-30W-V2	PSE501G-30W-V2
Standards	IEEE 802.3af,Power Over Ethernet		
	IEEE 802.3at,Power Over Ethernet Plus		
	IEEE 802.3,10BASE-T		
	IEEE 802.3u,100 BASE-TX		
	IEEE 802.3ab,1000 BASE-T		
Auto-MDI/MDI-X	Supported		
Auto-Negotiation	Supported		
Transmission Media	10Base T: Cat. 3, 4, 5 UTP/STP		
	100Base TX: Cat. 5, 5e UTP/STP		
	1000Base T: Cat. 5e, 6, 7 UTP/STP		

Ordering Information

Items	Product Description
PSE501-15W	IEEE 802.3af, End-Span, "Data" Input Port: 1*10/100 Base-T, "PoE (Data+Power)" Output Port: 1*10/100 Base-T
PSE501-30W-V2	IEEE 802.3af/at, End-Span, "Data" Input Port: 1*10/100 Base-T, "PoE (Data+Power)" Output Port: 1*10/100 Base-T
PSE501G-30W-V2	IEEE 802.3af/at, End-Span, "Data" Input Port: 1*10/100/1000 Base-T, "PoE (Data+Power)" Output Port: 1*10/100/1000 Base-T