

Gigabit active Power Over Ethernet splitter

IEEE802.3af compliant* PD power supply to PoE enable non-PoE legacy devices

The Infomart® PES 40 series wide band high power active PoE splitter provides a highly cost effective and easy way to power legacy Ethernet devices eliminating the need for an electrical outlet and its associated high cost electrical cabling. Its high efficiency across a wide output load band make this splitter offer the flexibility to power both low power IEEE802.3af PoE as well as higher power “PoE Plus” devices like PTZ network cameras, outdoor, multi-channel and 802.11N wireless LAN, and Bluetooth® access points, small notebook computers, and WiMax™ infrastructure, in the enterprise.



Features

- IEEE802.3af compliant*
*Compliant to all IEEE802.3af specifications except the higher current up to 600mA. Presents class 0 PD to PSE.
- High efficiency flexible “wide band” design
Peak up to 88%. Over 80% from 5W to 30W¹ output load on input voltage from 36V to 57V.
- One splitter for both low power or high power
Flexible “wide band” design operates efficiently with any IEEE802.3af Power Supply. Regular or higher power.
- Full protection.
Input under voltage or over voltage, output over current and short circuit. Output can be permanently short circuited without damage.
- 1500V isolation barrier for safety.
- 10/100/1000 (Gigabit) Ethernet support.
- Diagnostic LED indicators.
Input DC power and PoE good on, output power on.
- Supports 2 pair or 4 pair power extraction.
Extracts power from either data pair (1,2,3,6) or spare pair (4,5,7,8) or both pairs. PoE signature on any one pair.
- Accurate output line and load regulation.
- Compact and lightweight design.
- Choice of output voltage models.
- RoHS compliant.

Applications

- Remote IP Devices.
- IP Telephones / VoIP Video Streaming Telephones.
- Wireless Access Points / WiMax™ Infrastructure.
- Bluetooth Access Points.
- Remote IP Data Loggers.
- PTZ Security IP Cameras / Video Surveillance.
- Point of Sale (POS) terminals / IP Print Servers.
- Small Notebook Computers / Thin Clients.

Physical Dimensions

Plastic Enclosure

WxDxH : 94x73x31mm (2.87x3.70x1.22 in)

Weight : 112 g (0.247 lb, 3.95 oz)

For more information or OEM customisation contact

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PES-40 Specifications

Input

Input Voltage	:	36V to 57V DC (for higher power operation an input voltage of 51V or higher is recommended) Extracts power from either data pair (pins 1,2,3,6) or spare pair (pin 4,5,7,8) or both pairs			
Input Current	:	600mA maximum continuous as per draft IEEE 802.3at			
PD Detection	:	Presents IEEE802.3af PD signature and Class 0 classification to PSE on any one pair			
Ports	:	RJ45 shielded connector for PoE Input			

Output

Output Voltage ($\pm 3\%$)	:	12V	15V	18V	21V	24V
Output Current (RMS)	:	2.25A	1.8A	1.5A	1.28A	1.1A
Output Power Dependent on input voltage	:	27 Watts maximum continuous. 30 Watts maximum. ¹ (See explanation below). Maximum output power is determined by the input power (voltage and current).				
Regulation (typical)	:	$\pm 3\%$				
Ripple	:	< 100mV p-p (at DC Jack)				
Efficiency End to end	:	$\approx 85\%$ (at 24W load at 51V input, 12V model)				
Ports	:	RJ45 shielded connector for Data Out Centre positive barrel 5.5mm x 2.5mm for DC Out				

Isolation 1500V Isolation between input and output

Indicators

PoE detection and classification
Output Power
Output power LED will blink in the event of an output overload and switch off.

Environmental

Operating Ambient	:	-20 to 50 °C (-4 to 122 °F). Any power device such as this splitter produces heat and requires de-rating to operate at ambient temperatures over 30 °C (86 °F). The plastic case is not suitable for outdoor operations and at higher ambient conditions.
Storage	:	-20 to 65 °C (-4 to 149 °F)
Humidity	:	5% to 85% RH

Safety and Compliance

EMI and EMC	:	FCC Class B Part 15 and EN55022 (CISPR 22) Class B
Immunity	:	ESD : EN61000-4-2, RS : EN61000-4-3, CS : EN61000-4-6

¹ Current IEEE 802.3at standard permits 0.6A maximum input current. 30 Watts output possible by exceeding IEEE current limits to a maximum 0.75A.

Ordering Information

Models	Plastic Case
12V	PES-4012GPC0
15V*	PES 4015GPC0
18V*	PES 4018GPC0
21V*	PES 4021GPC0
24V	PES 4024GPC0

OEM branding and customisation available

* Special Order part. Minimum order quantities and lead times apply.



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