Allied Telesis™

6100 Series
PoE Injectors and Splitters

AT-6101G-xx
IEEE 802.3af single-port Gigabit Ethernet PoE midspan injector

AT-6101GP-xx
IEEE 802.3at single-port Gigabit Ethernet PoE+ midspan injector

AT-6102G-xx
IEEE 802.3af single-port Gigabit Ethernet PoE midspan splitter

AT-6112GP-xx
IEEE 802.3at twelve-port Gigabit Ethernet PoE+ midspan injector

Allied Telesis Power over Ethernet (PoE) accessories connect network-powered devices directly to the network cable without the need for a local power source.

IEEE 802.3af Power over Ethernet splitter

The Allied Telesis AT-6102G-xx PoE midspan spliiter converts non-PoE devices to using Power over Ethernet; there is no need for an additional power supply unit since the PoE splitter feeds the device with power received through the PoE connection.

The AT-6102G works with all IEEE 802.3af PoE-compliant Power Sourcing Equipment (PSE) and allows remote powering of any equipment, absorbing up to 15W.

The AT-6102G also has a DIP switch to select the voltage and match the requirements of devices like IP cameras, VoIP phones and more.

IEEE 802.3af/at Power over Ethernet injectors

Allied Telesis Power over Ethernet injectors feed power to PoE-Powered Devices (PD), such as access points, IP cameras and VoIP phones.

The Allied Telesis AT-6101G is compliant to IEEE 802.3af standard (PoE) and source up to 15.4W.

The Allied Telesis AT-6101GP and Allied Telesis AT-6112GP are compliant to the IEEE 802.3af/at standards (PoE/PoE+) and source up to 30W per port.

The AT-6112GP has an internal power supply unit and a 19" form factor for easy deployment to small and large organizations.

Main applications

Power over Ethernet (PoE) technology is a system to safely transfer electrical power, along with data, to remote devices over standard UTP data cables in an Ethernet network (Cat3/Cat5/Cat5e/Cat6).

PoE is an active technology which determines and negotiates whether the equipment needs power and in what amount; power will not be supplied in case of non-PoE equipment, so that prevents their damage.

The PoE/PoE+ midspan injector is typically installed close to the LAN switch and sources power to terminal equipment using the Ethernet network.

The PoE splitter avoids having to replace existing devices with PoE-enabled ones that simply substitute the original power supply.

The Allied Telesis 6100 Series helps protect network investments because it provides PoE technology and eliminates the need to draw up power to the terminal equipment.

This entire product set performs Gigabit Ethernet bandwidth for fast data transfer with low latency.

Key Features

► Gigabit Ethernet equipment

► Compliant to std IEEE 802.3af or IEEE 802.3at

► Over-load, short circuit protection

► Plug and Play

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SPECIFICATIONS	AT-6102G	AT-6101G	AT-6101GP	AT-6112GP
Operations	PoE splitter	PoE midspan injector	PoE+ midspan injector	
Interface				
Standards	IEEE 802.3 (10T), IEEE 802.3u (100TX), IEEE 802.3ab (1000T)			
Ports	1 peer			12 peers
Connectors	RJ-45, female			
Data Rate				
Througput	wire-speed			
Power characteristics				
Power supply unit	-	external AC/DC power adapter		internal PSU
Input voltage	IEEE 802.3af	100 ~ 240VAC, 50 ~ 60Hz		
Input current	-	0.1A	0.72A	5.2A @110VAC
Output voltage	5, 7.5, 9, 12VDC	IEEE 802.3af	IEEE 802.3af, IEEE 802.3at	
Max consumption	≤ 10W	≤ 16W	≤ 36W	≤ 572W
Protection	short circuit, over-load			
Output power cable length	360 mm (1.42 in) with selectable power jacks	-		
Environmental Specifications				
Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 45°C (32°F to 113°F)	0°C to 40°C (32°F to 104°F)	10°C to 45°C (50°F to 113°F)
Storage temperature	0°C to 70°C (32°F to 158°F)	0°C to 70°C (32°F to 158°F)	-20°C to 80°C (4°F to 176°F)	-20°C to 70°C (4°F to 176°F)
Operating humidity	≤ 90%, non-condensing			
Storage humidity	≤ 90%, non-condensing			≤ 95%, non-condensing
Reliability				
MTBF	≥ 180,000 hours	≥ 180,000 hours	≥ 116,684 hours	≥ 100,000 hours
Physical Specifications				
Dimentions (W x D x H)	80 mm x 55 mm x 26 mm (3.15 in x 22 in x 1 in)	117 mm x 60 mm x 35 mm (4.6 in x 2.4 in x 1.4 in)	65 mm x 36 mm x 140 mm (2.5 in x 1.4 in x 5.5 in)	440 mm x 205 mm x 44.5 mm (17.32 in x 8.07 in x 1.75 in)
Weight	80g (0.18 lb)	180g (0.4 lb)	300g (0.66 lb)	3.8Kg (8.38 lb)
Status indicators (LEDs)				
	power on	power on	power on, power feeding	power on
Compliance				
Regulatory approvals	CE, EAC, FCC, RCM, UL, cUL	CE, EAC, FCC, RCM, UL, cUL	CE, EAC, FCC, RCM, UL, cUL, TUV-T, China RoHS	CE, FCC
EMC/EMI	CISPR 22, class B, EN 55022:2010, EN 55024:2010, EN 61000-3-2:2006+A1:2009+A2:2009, EN 61000-3-3:2008, FCC part 15 Class B			
Safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011, EN 60825-1:2007			

Ordering Information

AT-6101G-xx
IEEE 802.3af single-port Gigabit Ethernet PoE midspan injector

AT-6101GP-xx
IEEE 802.3at single-port Gigabit Ethernet PoE+ midspan injector

AT-6112GP-xx
IEEE 802.3at twelve-port Gigabit Ethernet PoE+ midspan injector

AT-6102G-xx
IEEE 802.3af Multi-voltage PoE splitter

Associated Products

AT-FS708/POE
Unmanaged eight-port PoE switch

AT-8000/8POE
Eight-port PoE managed Fast Ethernet switch

AT-8000S/24POE
24-port Layer 2 stackable Fast Ethernet switch

AT-8000S/48POE
48-port Layer 2 stackable Fast Ethernet switch

Where xx = 10 for US power cord
20 for no power cord
30 for UK power cord
40 for Australian power cord
50 for European power cord

Allied Telesis™   **NETWORK SMARTER**

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