

AT-7101GHTm

Multi-Gigabit PoE++ (IEEE 802.3bt) Injector



Key Features

- ▶ Connect and power end-points over a single Ethernet cable
- ▶ Up to 60W (802.3bt) power sourcing
- ▶ Extend PD reach by up to 100 meters
- ▶ Multi-Gigabit (10/100M/1/2.5/5Gbps) network connectivity
- ▶ Overload and short circuit protection
- ▶ Light weight and compact size
- ▶ Plug-and-Play deployment
- ▶ Flexible installation with wall and DIN rail mounting options

PoE++ (802.3bt) Injector

The AT-7101GHTm single-port Power over Ethernet Injector provides data and power through the Ethernet cable to PoE equipped devices, such as wireless access points, IP cameras, VoIP phones and more.

Flexible power delivery enables supporting devices with the:

- ▶ 15.4 Watts of PoE (IEEE 802.3af)
- ▶ 30 Watts of PoE+ (IEEE 802.3at)
- ▶ 60 Watts of PoE++ (IEEE802.3bt)

Power over Multi-Gigabit networks

To enable modern networks of all speeds, the AT-7101GHTm can remotely power high-performance devices across Multi-Gigabit networks running at 1/2.5/5Gbps, as well as older networks running at 100Mbps.

The combination of Multi-Gigabit network performance, and power delivery available up to 60 Watts, make the AT-7101GHTm one of the most flexible and capable PoE injectors available.

Powered Device (PD) detection

The AT-7101GHTm injector automatically detects if the PD supports one of the PoE standards (IEEE 802.3af, 802.3at, or 802.3bt), and will then connect and power that device. If the injector detects that the connected device does not support one of the PoE standards, then it will not provide power to the device to avoid potential damage.

Main applications

Cost savings can be achieved using the AT-7101GHTm injector for remotely powering VoIP phones, IP cameras, wireless access points, and other types of PDs. There is no need for additional power cabling as the injector feeds power to the equipment through the same cable used for data.

Extend the distance from the network switch to the PD by up to 100 meters, which enables powering devices in hard-to-reach locations – as the AT-7101GHTm injector can be installed anywhere between the switch and the PD.

The AT-7101GHTm injector protects your network infrastructure investment, as Multi-Gigabit support means there is no need to replace existing legacy Cat5e/Cat6 building cables when connecting and powering PoE enabled devices.

For resilience, connecting the AT-7101GHTm injector to a UPS backed-up power supply protects the PD from any power outages.

Specifications

Standards

- ▶ IEEE 802.3 10T Ethernet
- ▶ IEEE 802.3u 100TX
- ▶ IEEE 802.3ab 1000T
- ▶ IEEE 802.3bz 2.5GBASE-T and 5GBASE-T
- ▶ IEEE 802.3af PoE
- ▶ IEEE 802.3at PoE+
- ▶ IEEE 802.3bt PoE++

Interfaces

- ▶ Two RJ-45 copper connectors supporting Ethernet networks running at 1/2.5/5Gbps, and older networks running at 10/100Mbps

Connectors

- ▶ Data in: RJ-45 copper connector using pins 1-8
- ▶ Data and Power out: RJ-45 copper connector using pins 1-8

Network Cable

- ▶ 10T: 2-pair UTP/STP Cat 3,4,5 cable EIA/TIA-568 100-Ω (100m)
- ▶ 100TX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-Ω (100m) Recommend Cat.5e cable above
- ▶ 1000T: 4-pair UTP/STP Cat.5E cable
- ▶ 2.5GT: 4-pair UTP/STP Cat.5E cable
- ▶ 5GT: 4-pair UTP/STP Cat.5E cable Recommend Cat.6 cable

LED Indicators

- ▶ PoE x 1
Green light on: PoE power forward
off: No PoE Power forward
Blinking: Boot up error
- ▶ SYS x 1
Green light on: Powering in
off: Power down or No Power installed

Power Supply

- ▶ Rated input voltage: 100VAC~240VAC
- ▶ Rated input frequency: 50~60 Hz
- ▶ Rated input current: 2A
- ▶ Output voltage: 54.5VDC PoE Output voltage
- ▶ Output current: 1.16A PoE Output current
- ▶ Output watt: 63W max. PoE Output watt
- ▶ Over current protection: Yes

Environmental Specifications

- ▶ Operating temperature: 0°C to 40°C (32°F to 104°F)
- ▶ Storage temperature: -40°C to 75°C (-40°F to 167°F)
- ▶ Operating humidity: 10 to 90% (non-condensing)
- ▶ Storage humidity: 5 to 90% (non-condensing)

Physical Specifications

- ▶ Dimensions (W x D x H): 84 x 80 x 25 mm
- ▶ Weight: 500g

Power Characteristics

- ▶ Power Consumption: 80W

Quality and Reliability

- ▶ EMI Certifications:
FCC Part 15 Subpart B Class A
CISPR 55032
EN55032: Class A
VCCI Class A
- ▶ Safety Certifications:
UL62368
EN62368
CE
BIS*
Immunity: EN55024

Environment Compliance

- ▶ EU-RoHS compliant

Ordering Information

AT-7101GHTm-xx

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Where xx = A0 for Indian power cord
10 for US power cord
30 for UK power cord
40 for Australian power cord
50 for European power cord

* The BIS certification is for the AC adapter that ships with the AT-7101GHTm