

MA-INJ-6 Meraki Multigigabit 802.3bt Power over Ethernet Injector

1. Last updated
Jul 9, 2021

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MA-INJ-6 Reliable, standards-compliant power for your Meraki devices

Increased Flexibility, Reduced Installation Time and Cost One of the main constraints when designing your wireless network is the availability of power. Running power cabling is also a primary cost driver of wireless installations. The Meraki multigigabit PoE injector allows delivery of both data and power to a Meraki access point over a single Ethernet cable, allowing deployment of devices exactly where they are needed to provide the best wireless coverage at a much lower installation cost. The Meraki Multigigabit 802.3bt PoE Injector MA-INJ-6 provides fully-compliant 802.3bt detection, with disconnect, short-circuit and overload protection. This ensures that only 802.3at and 802.3af devices receive power and non-compliant devices are not accidentally damaged. Using this injector, it is possible to power the latest generation of Wifi 6 devices that require 802.3bt power delivered via 10G multigigabit interfaces, as well as providing backward compatibility with legacy 802.11n devices with traditional 802.3af power. Regardless of the deployment scenario, powering Meraki devices with multigigabit 802.3bt Power over Ethernet is a flexible and low-cost method to simplify the installation process while ensuring that network design is not compromised by power availability limitations.

Product Highlights

- Reduces cost and simplifies installations by eliminating the need to provide separate power line
- Increases installation flexibility by powering devices from up to 100 meters away
- Fully IEEE 802.3bt standard compliant
- Supports 10/100/1000BASE-T and 10 Gbps Multigigabit Ethernet

- Power, load detection and fault diagnostics LEDs

Power

Input voltage: 100 to 240 VAC

Maximal input current: 2.0A(RMS) 90VAC @ Max Load 1.2A(RMS) 240VAC @ Max Load

AC input frequency: 50-60 Hz

Output voltage: 55 VDC

Maximum output power: 60W

Powered device can be up to 100m away from power injector * Depending on the quality of cable and external factor this could be reduced

Data

Compatible with Ethernet 10/100/1000/2500/5000/10000 Multigigabit Ethernet (10Gb)

Environmental

Operating temperature: -10 to 60 °C (14 to 140°F)

Storage temperature: -20 to 65 °C (-4 to 149°F)

Operating humidity: Maximum 90%

Additional features

Short-circuit protection

Physical dimensions

166 mm x 163.25 mm x 65.3 mm (6.42" x 2.57")

Weight: 312 g (11 oz).

Mounting

Mounts to walls (anchors and screws not included)

Compatibility

Complies with IEEE 802.3bt standard Backward compatibility with 802.3af and 802.3at devices

LED indicators

Input power

Detected/connected to valid 802.3bt load

Power and load detection diagnostic LEDs

Solid Green: Detection/Connection Valid & Output "ON"

Blink Amber (short, slow): Waiting for a Valid Connection/Detection

Blink Amber (long, fast): Fault Condition

Blink Amber & Green: Detection Invalid

Regulatory

FCC Part 15 Class B

EN55022 Class B

EN55024, EN55032

CE, VCCI

UL 60950-1, UL 62368

Warranty

1 year hardware warranty included

Ordering information

MA-INJ-6 Meraki Multigigabit 802.3bt Power over Ethernet Injector world-wide unit

SKU for the **injector** : MA-INJ-6

SKUs for the **CORDs** :

MA-PWR-CORD-US (USA plug)

MA-PWR-CORD-UK (United Kingdom plug)

MA-PWR-CORD-CN (China plug)

MA-PWR-CORD-IN (India plug)

MA-PWR-CORD-EU (EU plug)

MA-PWR-CORD-BR (Brazil plug)

MA-PWR-CORD-AR (AR plug)

MA-PWR-CORD-AU (AU plug)