DATASHEET

Axis High Power over Ethernet midspans & splitters

High Power over Ethernet for Axis PTZ dome network cameras.

- > Reduced installation costs
- > Support for Axis PTZ dome network cameras
- > IEEE 802.3at compliance
- > IEEE 802.3af compliance

Axis High Power over Ethernet midspans and splitters offer an easy, fast and cost-effective solution for powering network video products, without the need to install power outlets and electrical cabling.

Axis High Power over Ethernet (High PoE) midspans and splitters enable Axis network video products to receive data and power over the same Ethernet cable.

The High PoE products make it easier to install network video products in areas where power cabling and outlets are unavailable, thereby reducing installation costs.

The function of a midspan is to inject power into a network cable. A splitter, which separates data and power coming over an Ethernet cable, is used for a network video product without built-in support for PoE.

These midspans and splitters are used to power network devices that require more power, as specified by the IEEE 802.3at standard. The midspans are also IEEE 802.3af compliant, meaning that they can be used with all Axis network video products with built-in PoE support.

AXIS T8124 provides 60W (two times IEEE802.3at) which is required when operating AXIS Q60-E Network Cameras in temperatures below -20 °C (-4 °F).

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Technical Specifications – Axis High Power over Ethernet midspans

Midspan	
Model	**AXIS T81B22 DC 30 W Midspan** (1-port) **AXIS T8123 High PoE 30 W Midspan 1-port** **AXIS T8124 High PoE 60 W Midspan 1-port**
Function	Data and power are fed to a network video product through an Ethernet cable; use together with a High PoE splitter for a network video product without built-in PoE support
Data rate	10/100/1000 Mbps
Data & Power	
Connectors	Shielded RJ-45, EIA 568A and 568B
Network cables	Shielded category 5 (or higher)
Wiring	Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet, over all four pairs for Gigabit Ethernet Power over spare pairs 4/5 (+) and 7/8 (-) **AXIS T8124:** Power over pairs 1/2 (-), 3/6 (+), 4/5 (+) and 7/8 (-)
Output power	**AXIS T81B22:** 51 V DC at: 12 V DC IN (max. 30 W) 24 V DC IN (max. 15 W) **AXIS T8123:** 55 V DC (max. 30 W) **AXIS T8124:** 55 V DC (max. 60 W)
Input power	**AXIS T81B22:** 12/24 V DC (max 38/20 W) **AXIS T8123:** AC Input Voltage: 100 to 240 V AC (max. 37 W) AC Frequency: 50 - 60 Hz **AXIS T8124:** AC Input Voltage: 100 to 240 V AC (max. 74 W) AC Frequency: 50 - 60 Hz
Installation and management	Plug-and-play installation; automatically detects PoE and High PoE-enabled devices and supplies inline power Local LED management display

General	
Display and indicators	Port interfaces are located on the front panel **AXIS T81B22:** Power indicator: DC power Network indicator: Port **AXIS T8123 and AXIS T8124:** System indicator: AC power Channel indicator: Power For more information, see www.axis.com/techsup
Compliance	RoHS, WEEE, CE **AXIS T81B22:** IEEE 802.3af and IEEE 802.3at compliant at 12 V DC IN, only IEEE 802.3af compliant at 24 V DC IN **AXIS T8123 and AXIS T8124:** IEEE 802.3af, IEEE 802.3at
Mounting	Wall or shelf mounting
Approvals	**AXIS T81B22:** FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions), EN 55024 (Immunity), VCCI, EN 60950-1, ICES-003, C-TICK **AXIS T8123 and AXIS T8124:** FCC Part 15, Class B with FTP cabling EN 55022 Class B (Emissions), EN 55024 (Immunity), VCCI Safety: CB, UL/cUL per EN 60950-1, GS Mark per EN 60950-1, KCC, UL-AR
Operating conditions	Humidity max. 95% RH (non-condensing) **AXIS T81B22:** -20 °C to 65 °C (-4 °F to 149 °F) **AXIS T8123:** -10 °C to 55 °C (14 °F to 131 °F) **AXIS T8124:** -10 °C to 45 °C (14 °F to 113 °F) at 60 W* -10 °C to 55 °C (14 °F to 131 °F) at 30 W* -10 °C to 60 °C (14 °F to 140 °F) at 25 W or less* *output
Storage	**AXIS T81B22:** -40 °C to 74 °C (-40 °F to 165 °F) **AXIS T8123:** -20 °C to 70 °C (-4 °F to 158 °F) **AXIS T8124:** -20 °C to 70 °C (-4 °F to 158 °F)
Dimensions (HxWxD) and weight	**AXIS T81B22:** 117 x 95 x 41 mm (4.6" x 3.7" x 1.6") **AXIS T8123 and AXIS T8124:** 51.3 x 87.9 x 166 mm (2.0" x 3.46" x 6.53") **AXIS T81B22:** 200 g (0.4 lb.) **AXIS T8123:** 350 g (0.7 lb.) **AXIS T8124:** 400 g (0.8 lb.)
Included accessories	**AXIS T81B22:** DC input terminal connector

Technical Specifications – Axis High Power over Ethernet splitters

Splitters	
Models	**AXIS T8126 High PoE Splitter 12V** **AXIS T8128 High PoE Splitter 24V**
Function	Separate data and power coming over a network cable for a network video product without built-in PoE support
Data & Power	
Connectors	Data & power in: Shielded RJ-45 Data out: Shielded RJ-45 Power out: DC barrel connector; with '+' centered
Output current	**AXIS T8126:** 2 A at 12 V DC **AXIS T8128:** 1 A at 24 V DC
Input power	max. 30 W
Installation	Plug-and-play installation between midspan and camera

General	
Compliance	WEEE, CE
Operating conditions	0 °C to 40 °C (32 °F to 104 °F) Humidity max. 90% RH (non-condensing)
Approvals	FCC Part 15 Class A FTP, Class A UTP EN55022 (CISPR 22) Class A Immunity EN55024 (CISPR 24)
Dimensions (HxWxD) and weight	94 x 31 x 73 mm (3.7" x 1.12" x 2.87") 112 g (0.247 lb.)
Included accessories	**AXIS T8126** – cable adapters for AXIS 214 PTZ, AXIS 215 PTZ, video encoders **AXIS T8128** – cable adapter for AXIS 232D+, AXIS 233D For a complete list of supported products, please refer to www.axis.com/products/pol/high_poe/supported.htm

More information is available at www.axis.com and on products' Installation Guide

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