Axis Power over Ethernet midspans & splitters

Network video without the need for power outlets.

> **Reduced installation costs**

> **IEEE 802.3af compliance**

Axis High PoE products are available for Axis PTZ and PTZ dome cameras. See separate datasheet.

Power over Ethernet (PoE) offers an easy, fast and cost-effective solution for supplying power to network video products without the need to install power outlets and electrical cabling. Simply connect the Axis PoE midspans and PoE splitters to the network, and the network video products are supplied with power.

Axis PoE midspans provide power (max. 15.4 W per port) over Ethernet cables to network video products with built-in PoE support. For a network video product without built-in PoE support, a PoE splitter must be used to separate power and data coming over the network cable.

The PoE products enable network cameras and video encoders to be installed in areas where traditional power cabling and outlets are unavailable or difficult to install. Installations are made easier and costs are reduced.

Axis PoE midspans and PoE splitters are IEEE 802.3af compliant, which ensures compatibility with most of Axis products that have built-in support for PoE.

For network cameras such as PTZ (pan/tilt/zoom) and PTZ dome cameras that require higher power than what PoE products can provide, High PoE midspans and splitters are available. See Axis High Power over Ethernet midspan and splitters datasheet.

Technical Specifications – Axis Power over Ethernet midspans

Midspans

Models	AXIS T8120 Midspan 15 W 1–port AXIS Power over Ethernet Midspan 8 port AXIS Power over Ethernet Midspan 16 port
Function	Data and power are fed to a network video product through an Ethernet cable; use together with a PoE splitter for a network video product without built-in PoE support
Data rate	AXIS T8120: 10/100/1000 Mbps 8- and 16–port midspans: 10/100/1000 Mbps

Data & Power

Connectors	Shielded RJ–45, EIA 568A and 568B
Network cables	Shielded category 5 (or higher) Ethernet
Wiring	AXIS T8120: Mode B; data provided over pairs 1/2 and 3/6, power over spare pairs 4/5 (+) and 7/8 (-) 8- and 16–port midspans: Mode A; data and power provided over pairs 1/2 (+) and 3/6 (-)
Output power	48 V DC (max. 15.4 W/port)
Input power	AXIS T8120: AC input voltage: 100 - 240 V AC (50/60 Hz) AC frequency: 47 - 63 Hz AC input current: 0.5 A maximal 8- and 16–port midspans: AC input voltage range: 90 - 264 V AC AC Input frequency: 47 - 63 Hz AC input current: 4.5 A (RMS) max. for 90 V AC, 2.25 A (RMS) max. for 240 V AC
Installation and management	Plug-and-play installation; midspans automatically detect all devices with support for PoE and supply inline power Local LED management display
Port auto–sensing	Standard IEEE 802.3af auto–sensing Pre-standard backward compatibility algorithm (AXIS T8120 Midspan 15 W 1-port only)

General

Display and indicators	All port interfaces are located on the front panel for easy access and real-time network monitoring System: AC power, Channel indicator - power and fault For more information, see www.axis.com/techsup
Compliance	IEEE 802.3 standard (when no inline power is supplied) and IEEE 802.3af, DTE Power via Media Dependent Interface (MDI)
Mounting	AXIS T8120: Wall or shelf mounting 8- and 16–port midspans: Prepared for 19", 1U rack installation
Approvals	AXIS T8120: FCC Part 15 Class B with FTP cabling EN55022 (CISPR 22) Class B with FTP cabling Safety: cUL/UL, TUV, CE 8- and 16–port midspans: TUV EN 60950 FCC Class B, EN55022 Class B, EN61000-4-2. EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, EN61000-3-2 Class A Safety: cUL/UL, TUV, CE
Operating conditions	0 °C to 40 °C (32 °F to 104 °F) Humidity 10 - 90% RH (non-condensing)
Dimensions (HxWxD) and weight	AXIS T8120: 33 x 53 x 140 mm (1.3" x 2.1" x 5.5") 450 g (1 lb.) 8- and 16–port midspans: 44.5 x 228 x 438 mm (1.75" x 8.98" x 17.26") 4.08 kg (9 lb.)

More information is available at www.axis.com

Technical Specifications – Power over Ethernet splitters

Splitters

Models	AXIS PoE Active Splitter 5V AF (only supported by 1-port Midspan) For a complete list of supported products, please refer to www.axis.com/products/pol/poe/
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, cable adapter for supported network video products
Output current	5 V unit: 2 A at 5 V DC
Input power	48 V nominal
Installation	Plug-and-play installation between midspan and network video product

General

Operating conditions	0 °C to 40 °C (32 °F to 104 °F) Humidity 10 - 90% RH (non-condensing)
Approvals	EMC and Immunity: FCC Part 15 subpart B Class A, EN 55022 (CISPR 22) Class A, EN 55024 (CISPR 24)
Dimensions (HxWxD) and weight (without DC cable and package)	5 V unit: 25 x 55 x 81 mm (1" x 2.2" x 3.2"), 100 g (0.22 lb.)

More information is available at www.axis.com

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