

# AXIS Power over Ethernet Midspans

*Network video without the need for power outlets*

*Power over Ethernet offers an easier, faster and more cost-effective solution than installing new power outlets and electrical cabling. No electrician is needed – simply connect AXIS PoE Midspans and Active Splitters to the network.*



## AXIS POE MIDSPANS AND ACTIVE SPLITTERS >

Use AXIS PoE Midspans to provide power over the Ethernet cable to PoE enabled network cameras. Use Active splitters to separate power and data from a PoE enabled network for cameras without PoE support.

## REDUCED INSTALLATION COSTS >

Axis network cameras and video encoders can be located in places where traditional power cabling and outlets are unavailable or difficult to install.

## GUARANTEED POWER SUPPLY >

Cameras powered by PoE will continue to work even if there is local power loss where the cameras are installed. A UPS (uninterruptible Power Supply) connected to the midspans will increase uptime even more.

## IEEE 802.3af COMPLIANCE >

IEEE 802.3af compliant, which ensures compatibility with future Axis Power over Ethernet products.

## TECHNICAL SPECIFICATIONS – AXIS POWER OVER ETHERNET MIDSPANS

|                       |                                                                                                                                                                                                                                                                                                                     |                                      |                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Models</b>         | AXIS Power over Ethernet Midspan 1 port<br>AXIS Power over Ethernet Midspan 8 port<br>AXIS Power over Ethernet Midspan 16 port                                                                                                                                                                                      | <b>Installation and management</b>   | Plug-and-play installation. Midspans automatically detect all Power Over Ethernet enabled devices and supply inline power. Local LED management display                                                                                                                                                                               |
| <b>Function</b>       | With AXIS Power over Ethernet Midspans, data and power are fed to the network cameras through the Ethernet cable, no power connection required.                                                                                                                                                                     | <b>Port auto-sensing</b>             | Standard IEEE 802.3af auto-sensing. Pre-standard backward compatibility algorithm (1-port midspan only)                                                                                                                                                                                                                               |
| <b>Data rate</b>      | 1 port midspan: 10/100 Mbps<br>8 and 16 port midspans: 10/100/1000 Mbps                                                                                                                                                                                                                                             | <b>Display and indicators</b>        | All port interfaces are located on the front panel for easy access and real-time network monitoring.<br>System: AC power, Channel indicator – power and fault<br>See <a href="http://www.axis.com/techsup">www.axis.com/techsup</a> for more information                                                                              |
| <b>Connectors</b>     | Shielded RJ-45, EIA 568A and 568B                                                                                                                                                                                                                                                                                   | <b>Compliance</b>                    | IEEE 802.3 standard (when no inline power is supplied) and IEEE 802.3af, DTE Power via Media Dependent Interface (MDI)                                                                                                                                                                                                                |
| <b>Network cables</b> | Shielded category 5 (or higher) Ethernet; max. length up to 100 m (328 ft)                                                                                                                                                                                                                                          | <b>Mounting</b>                      | 1 port midspan: Wall or shelf mounting<br>8 and 16 port midspans: Prepared for 19", 1U rack installation                                                                                                                                                                                                                              |
| <b>Wiring</b>         | 1-port midspan: Mode B; data provided over pairs 1/2 and 3/6, power over spare pairs 4/5 (+) and 7/8 (-)<br>8-/16-port midspan: Mode A; data and power provided over pairs 1/2 (+) and 3/6 (-)                                                                                                                      | <b>Approvals</b>                     | 1 port midspan: FCC Part 15 Class B with FTP cabling<br>EN55022 (CISPR 22) Class B with FTP cabling<br>Safety: cUL/UL, TUV, CE<br>8 and 16 port midspans: TUV EN 60950<br>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<br>Safety: cUL/UL, TUV, CE |
| <b>Output power</b>   | 48 V DC (max 15.4 W/port)                                                                                                                                                                                                                                                                                           | <b>Operating conditions</b>          | 0 - 40 °C (32 - 104 °F)<br>Humidity max 90% RH (non-condensing)                                                                                                                                                                                                                                                                       |
| <b>Input power</b>    | 1 port midspan:<br>AC input voltage: 90 - 264 V AC<br>AC frequency: 47 - 63 Hz<br>AC input current: 0.5 A at 110 - 220 V AC<br>8 and 16 port midspans:<br>AC input voltage range: 90 - 264 V AC<br>AC input frequency: 47 - 63 Hz<br>AC input current: 4.5 A (RMS) max. for 90 V AC, 2.25 A (RMS) max. for 240 V AC | <b>Dimensions (HxWxD) and weight</b> | 1 port midspan: 31 x 60 x 145 mm (1.22" x 2.36" x 5.71")<br>450 g (1 lbs)<br>8 and 16 port midspans: 44.5 x 228 x 438 mm (1.75" x 8.98" x 17.26")<br>4.08 kg (9 lbs)                                                                                                                                                                  |

## TECHNICAL SPECIFICATIONS – POWER OVER ETHERNET ACTIVE SPLITTER

|                     |                                                                                                                                                                                                  |                                                                     |                                                                                                                                                                                                                           |
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| <b>Models</b>       | PoE Active Splitter 5V<br>PoE Active Splitter 12V (not IEEE 802.3af compliant, only supported by 1-port Midspan)<br>PoE Active Splitter 18V                                                      | <b>Installation</b>                                                 | Plug-and-play installation between midspan and camera                                                                                                                                                                     |
| <b>Function</b>     | Active splitters separate data traffic and power coming over a network cable. They enable Axis network cameras without PoE support to receive both power and data from a PoE network connection. | <b>Operating conditions</b>                                         | 5 V and 12 V units: 0 - 40 °C (32 - 104 °F)<br>Humidity 10 - 90% RH (non-condensing)<br>18 V unit: -20 - 55 °C (-4 - 131 °F)<br>Humidity max 93% RH (non-condensing)                                                      |
| <b>Connectors</b>   | Data & power in: Shielded RJ 45<br>Data out: Shielded RJ-45; Power out: DC barrel connector, cable adapter for supported cameras                                                                 | <b>Approvals</b>                                                    | EMC and Immunity:<br>5V splitter: FCC Part 15 subpart B Class A, EN 55022 (CISPR 22) Class A, EN 55024 (CISPR 24)<br>12V and 18V splitter: EN55022 (CISPR 22) Class B, FCC Part 15 subpart B Class B, EN 55024 (CISPR 24) |
| <b>Output power</b> | 5 V unit: 5 V, 2 A<br>12 V unit: 12 V, 0.9 A<br>18 V unit: 18 V, 0.38 A                                                                                                                          | <b>Dimensions (HxWxD) and weight (without DC cable and package)</b> | 5 V unit: 25 x 55 x 81 mm (1" x 2.2" x 3.2"),<br>100 g (0.22 lbs)<br>12 V unit: 32 x 127 x 76 mm (1.26" x 5" x 3"),<br>175 g (0.39 lbs)<br>18 V unit: 33 x 75 x 120 mm (1.26" x 3" x 4.8"),<br>220 g (0.48 lbs)           |
| <b>Input power</b>  | 48 V nominal                                                                                                                                                                                     |                                                                     |                                                                                                                                                                                                                           |
| <b>Compliance</b>   | 5 V and 18 V units: IEEE 802.3af<br>(12 V unit not compliant)                                                                                                                                    |                                                                     |                                                                                                                                                                                                                           |

For complete list of supported product, please refer to [www.axis.com/products/pol/list.htm](http://www.axis.com/products/pol/list.htm)

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