Axis High Power over Ethernet midspans
High Power over Ethernet for indoor and outdoor installations.

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

Axis PoE+ midspans are connected to the mains power, transforming the power and inject it into the network cable enabling 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.

These midspans are used to power all network devices that are IEEE 802.3af or at compliant, meaning that they can be used with all Axis network video products with built-in PoE support.

AXIS T8124/-E and AXIS T8125 provide 60 W (two times IEEE802.3at) which is required when operating e.g. AXIS Q60-E Network Cameras in temperatures below -20 °C (-4 °F). AXIS T8124/-E and AXIS T8125 differ for the AC input voltage, which is respectively of 100 to 240 V AC and 24 V AC.

> Reduced installation costs
> IEEE 802.3at and IEEE 802.3af compliance
> Outdoor-ready models
> Plug-and-play installation
> Support for Axis PTZ dome network cameras
## Technical Specifications – Axis High Power over Ethernet midspans

### Model
- AXIS T81B22 DC 30 W Midspan (1-port)
- AXIS T8123 High PoE 30 W Midspan 1-port
- AXIS T8123-E Outdoor Midspan 30 W (1-port)
- AXIS T8124 High PoE 60 W Midspan 1-port
- AXIS T8124-E Outdoor Midspan 60 W (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

AXIS T8123-E/T8124-E: Built-in surge protection

### Data rate
10/100/1000 Mbps

### Data & Power

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Shielded RJ45, EIA 568A and 568B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network cables</td>
<td>Shielded category 5 (or higher)</td>
</tr>
<tr>
<td>Power cable</td>
<td>AXIS T8123-E/T8124-E: Pre-installed 3 m shielded cable, pigtail</td>
</tr>
</tbody>
</table>

### Wiring
Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet, over all four pairs for Gigabit Ethernet

**AXIS T8124**
- Power over pairs 1/2, 3/6, 4/5, and 7/8
- 51 V DC at: 2-pin AC terminal block
- +/– 20% AC Frequency: 50 - 60 Hz
- Input power: 55 V DC (max. 60 W)
- AC Input Voltage: 100 to 240 V AC (max. 77 W)
- AC Frequency: 50 - 60 Hz

**AXIS T81B22**
- 2-pin AC terminal block
- Input power: 51 V DC at: 12 V DC IN (max. 30 W)
- 24 V DC IN (max. 15 W)
- AC Input Voltage: 100 to 240 V AC (max. 38 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

AXIS T8123-E/T8124-E: Outdoor ready plug-and-play installation; automatically detects PoE and High PoE-enabled devices and supplies inline power

### General

<table>
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<tr>
<th>Casing</th>
<th>AXIS T8123-E/T8124-E: Polycarbonate casing, IP66- and NEMA 4X-rated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>RAL 9002</td>
</tr>
</tbody>
</table>

### Display and indicators
Port interfaces are located on the front panel

**AXIS T8122**: Power indicator: DC power

**AXIS T8123/T8124**: System indicator: AC power

**AXIS T8125**: Power indicator: Main LED

Data connectivity: Port LED

For more information, see www.axis.com/techsup

### Compliance
RoHS, WEEE, CE, IEEE 802.3af, IEEE 802.3at

AXIS T8122: IEEE 802.3af and IEEE 802.3at compliant at 12 V DC IN, only IEEE 802.3af compliant at 24 V DC IN

### Mounting
Wall or shelf mounting

AXIS T8122: Wall, shelf or DIN rail mounting

AXIS T8123-E/T8124-E: Wall or pole mounting

### Weight

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXIS T81B22</td>
<td>200 g (0.4 lb.)</td>
</tr>
<tr>
<td>AXIS T8123</td>
<td>435 g (1 lb.)</td>
</tr>
<tr>
<td>AXIS T8123-E/T8124-E</td>
<td>1.1 kg (2.4 lb.)</td>
</tr>
</tbody>
</table>

### Included accessories
AXIS T8122: DC input terminal connector
AXIS T8125: 2-pin AC terminal connector

### Optional accessories
AXIS T8123-E/T8124-E: Pole Mount Bracket F

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

### Specifications Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. output power</th>
<th>Input power</th>
<th>Operating conditions</th>
<th>Storage</th>
<th>Approvals</th>
<th>Environment</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXIS T81B22</td>
<td>51 V DC at: 12 V DC IN (max. 30 W)</td>
<td>12/24 V DC (max. 38/20 W)</td>
<td>-20 °C to 65 °C (-4 °F to 149 °F)</td>
<td>-40 °C to 74 °C (-40 °F to 165 °F)</td>
<td>FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick</td>
<td>Indoor</td>
<td>117 x 95 x 41 mm (4.6 x 3.7 x 1.6 in)</td>
</tr>
<tr>
<td>AXIS T8123</td>
<td>55 V DC (max. 30 W)</td>
<td>AC Input Voltage: 100 to 240 V AC (max. 37 W)</td>
<td>-10 °C to 55 °C (-14 °F to 131 °F)</td>
<td>-20 °C to 70 °C (-4 °F to 158 °F)</td>
<td>FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick</td>
<td>Indoor</td>
<td>51 x 88 x 166 mm (2 x 3.5 x 6.5 in)</td>
</tr>
<tr>
<td>AXIS T8123-E</td>
<td>55 V DC (max. 60 W)</td>
<td>AC Input Voltage: 100 to 240 V AC (max. 74 W)</td>
<td>-10 °C to 55 °C (-14 °F to 131 °F)</td>
<td>-20 °C to 70 °C (-4 °F to 158 °F)</td>
<td>FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick</td>
<td>Indoor</td>
<td>70 x 150 x 214 mm (2.8 x 5.9 x 8.4 in)</td>
</tr>
<tr>
<td>AXIS T8124</td>
<td>55 V DC (max. 60 W)</td>
<td>AC Input Voltage: 100 to 240 V AC (max. 60 W)</td>
<td>-10 °C to 55 °C (-14 °F to 131 °F)</td>
<td>-20 °C to 70 °C (-4 °F to 158 °F)</td>
<td>FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick</td>
<td>Indoor</td>
<td>51 x 88 x 166 mm (2 x 3.5 x 6.5 in)</td>
</tr>
<tr>
<td>AXIS T8124-E</td>
<td>55 V DC (max. 60 W)</td>
<td>AC Input Voltage: 100 to 240 V AC (max. 60 W)</td>
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<td>Indoor</td>
<td>70 x 150 x 214 mm (2.8 x 5.9 x 8.4 in)</td>
</tr>
<tr>
<td>AXIS T81B22</td>
<td>55 V DC (max. 60 W)</td>
<td>AC Input Voltage: 100 to 240 V AC (max. 60 W)</td>
<td>-10 °C to 55 °C (-14 °F to 131 °F)</td>
<td>-20 °C to 70 °C (-4 °F to 158 °F)</td>
<td>FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick, FCC Part 15, Class B with FTP cabling, EN 55022 Class B, EN 55024, EN 61000-4-5 Class 5 (6kV CM), VCCI,ICES-003, C-tick</td>
<td>Indoor</td>
<td>43 x 84 x 166 mm (1.7 x 3.3 x 6.5 in)</td>
</tr>
</tbody>
</table>