

# Axis High Power over Ethernet midspans

## High Power over Ethernet for indoor and outdoor installations



- > IEEE 802.3af/at
- > 12-24 V DC, 24 V AC and 100-230 V AC
- > Outdoor-ready models
- > Plug-and-play
- > Support for Axis PTZ domes

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 power source (DC, AC or mains), 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 IEEE 802.3at compliant, mean-

ing 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 require 100 to 240 V AC and 24 V AC respectively.

# Technical Specifications - Axis High Power over Ethernet midspans

| Midspans                           |   |
|------------------------------------|---|
| <b>Function</b>                    | 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<br>AXIS T8123-E/T8124-E: Built-in surge protection           |
| <b>Date rate</b>                   | 10/100/1000 Mbps  |
| <b>Connectors</b>                  | Shielded RJ45, EIA 568A and 568B<br>AXIS T81B22: 2-pin DC terminal power connector<br>AXIS T8124/T8133: Power connector C13<br>AXIS T8125: 2-pin AC terminal power connector  |
| <b>Network cables</b>              | Shielded category 5 (or higher)   |
| <b>Wiring</b>                      | 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 (-)<br>AXIS T8124/-E, AXIS T8125: Power over pairs 1/2 (-), 3/6 (+), 4/5 (+) and 7/8 (-) |
| <b>Installation and management</b> | Plug-and-play installation; automatically detects PoE and High PoE-enabled devices and supplies inline power.<br>Local LED management display (not applicable for   |

AXIS T8123-E/T8124-E)

NOTE: AXIS T81B22, AXIS T8133 and AXIS T8123-E should be used with a non-PoE network switch. If a PoE switch is used, turn off the PoE on the port in use

|                               |  |
|-------------------------------|--|
| <b>Casing</b>                 | AXIS T8123-E/T8124-E: Outdoor, Polycarbonate, IP66-/NEMA 4X-rated  |
| <b>Display and indicators</b> | Port interfaces are located on the front panel<br>AXIS T81B22: Power indicator: DC power<br>Network indicator: Port<br>AXIS T8133: Port LED: Power indicator and Data connectivity<br>AXIS T8124: System indicator: AC power<br>Channel indicator: Power<br>AXIS T8125: Power indicator: Main LED<br>Data connectivity: Port LED |
| <b>Warranty</b>               | Axis 3-years warranty, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a>  |

More information is available at [www.axis.com](http://www.axis.com)

|                               | AXIS T81B22  | AXIS T8133   | AXIS T8123-E  | AXIS T8124   | AXIS T8124-E  | AXIS T8125  |
|-------------------------------|--|--|---|--|---|---|
| <b>Max. PoE class</b>         | At 12 V:<br>Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4<br>At 24 V:<br>Power over Ethernet IEEE 802.3af Type 1 Class 3                                       | Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4  | Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4   | High Power over Ethernet, max. 60 W  | High Power over Ethernet, max. 60 W   | High Power over Ethernet, max. 60 W   |
| <b>Max. output power</b>      | 51 V DC at:<br>12 V DC IN (max. 30 W)<br>24 V DC IN (max. 15 W)  | 55 V DC (max. 30 W)  | 55 V DC (max. 30 W)   | 55 V DC (max. 60 W)  | 55 V DC (max. 60 W)   | 55 V DC (max. 60 W)   |
| <b>Input power</b>            | 12/24 V DC (max. 38/20 W)  | AC Input Voltage:<br>100 to 240 V AC<br>AC Frequency: 50-60 Hz   | AC Input Voltage:<br>100 to 240 V AC<br>AC Frequency: 50-60 Hz  | AC Input Voltage:<br>100 to 240 V AC<br>AC Frequency: 50-60 Hz   | AC Input Voltage:<br>100 to 240 V<br>AC Frequency: 50-60 Hz   | AC Input Voltage:<br>24 V AC +/- 20% (max. 80 W)<br>AC Frequency: 50-60 Hz  |
| <b>Mounting</b>               | Wall, shelf or DIN rail mounting   | Wall, shelf or DIN rail mounting   | Wall or pole mounting   | Wall, shelf or DIN rail mounting   | Wall or pole mounting   | Wall, shelf or DIN rail mounting  |
| <b>Approvals</b>              | RoHS, WEEE, CE, EN 55022 Class B, EN 55024, FCC Part 15 Subpart B Class B, ICES-003, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1 | RoHS, REACH, WEEE, CE, EN 55022 Class B, EN 55024, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1, GS, CB, CCC | RoHS, REACH, WEEE, CE, EN 55022 Class B, EN 55024, EN 61000-4-5, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, CQC, CCC, IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, GS, CB, KC, S-mark, IEC/EN 60529 IP66, NEMA 250 Type 4X, ASTM B-117, GR-1089-CORE, ITU-T | RoHS, REACH, WEEE, CE, EN 55022 Class B, EN 55024, FCC Part 15 Subpart B Class B, VCCI Class B, KCC KN22 Class B, KN24, CB, IEC/EN/UL 60950-1, GS, UL-AR               | RoHS, REACH, WEEE, CE, EN 55022 Class B, EN 55024, EN 61000-4-5, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, CQC, CCC, IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, GS, CB, KC, S-mark, IEC/EN 60529 IP66, NEMA 250 Type 4X, ASTM B-117, GR-1089-CORE, ITU-T | RoHS, REACH, WEEE, CE, EN 55022 Class B, EN 55024, FCC Part 15 Subpart B Class B, VCCI Class B, C-tick AS/NZS CISPR 22 Class B, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1, GS, CB |
| <b>Operating conditions</b>   | -20 °C to 65 °C (-4 °F to 149 °F)<br>Humidity max. 95% RH (non-condensing)   | -20 °C to 40 °C (-4 °F to 104 °F)<br>At 22.5 W: -20 °C to 55 °C (-4 °F to 131 °F)<br>Humidity 10-90% RH (non-condensing)   | -40 °C to 55 °C (-40 °F to 131 °F)<br>At 15.4 W: -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 10-100% RH (condensing)   | -10 °C to 45 °C (14 °F to 113 °F)<br>At 30 W: -10 °C to 55 °C (14 °F to 131 °F)<br>At 25 W: -10 °C to 60 °C (14 °F to 140 °F)<br>Humidity max. 95% RH (non-condensing) | -40 °C to 50 °C (-40 °F to 122 °F)<br>At 30 W: -40 °C to 55 °C (-40 °F to 131 °F)<br>Humidity 10-100% RH (condensing)   | -10 °C to 40 °C (14 °F to 104 °F)<br>At 30 W: -10 °C to 50 °C (14 °F to 122 °F)<br>Humidity max. 95% RH (non-condensing)  |
| <b>Dimensions (H x W x L)</b> | 117 x 95 x 41 mm (4.6 x 3.7 x 1.6 in)  | 33 x 53 x 140 mm (1.3 x 2.1 x 5.5 in)  | 70 x 150 x 214 mm (2.8 x 5.9 x 8.4 in)  | 51 x 88 x 166 mm (2 x 3.5 x 6.5 in)  | 70 x 150 x 214 mm (2.8 x 5.9 x 8.4 in)  | 43 x 84 x 166 mm (1.7 x 3.3 x 6.5 in)   |
| <b>Weight</b>                 | 200 g (0.4 lb)   | 200 g (0.4 lb)   | 1 kg (2.4 lb)   | 350 g (0.7 lb)   | 1 kg (2.4 lb)   | 450 g (1 lb)  |
| <b>Included accessories</b>   | AXIS Connector A 2-pin 3.81 Straight   |  |   |  |   | AXIS Connector A 2-pin 5.08 Straight  |
| <b>Optional accessories</b>   |  | AXIS T91A03 DIN Rail Clip  | Pole Mount Bracket F  | AXIS Midspan DIN Clip A  | Pole Mount Bracket F  | AXIS Midspan DIN Clip A   |