

# INSTALLATION GUIDE

## AXIS T8133 Midspan 30W

ENGLISH

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## Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

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## Support

Should you require any technical assistance, please contact your Axis reseller. If your questions cannot be answered immediately, your reseller will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can:

- download user documentation and software updates
- find answers to resolved problems in the FAQ database. Search by product, category, or phrase

- report problems to Axis support staff by logging in to your private support area
- chat with Axis support staff (selected countries only)
- visit Axis Support at [www.axis.com/techsup/](http://www.axis.com/techsup/)

## Learn More!

Visit Axis learning center [www.axis.com/academy/](http://www.axis.com/academy/) for useful trainings, webinars, tutorials and guides.

## Regulatory Information

### Europe



This product complies with the applicable CE marking directives and harmonized standards:

- Electromagnetic Compatibility (EMC) Directive 2004/108/EC. See *Electromagnetic Compatibility (EMC)*, on page 2.
- Low Voltage (LVD) Directive 2006/95/EC. See *Safety*, on page 3.
- Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU. See *Disposal and Recycling*, on page 3.

A copy of the original declaration of conformity may be obtained from Axis Communications AB. See *Contact Information*, on page 3.

## Electromagnetic Compatibility (EMC)

This equipment has been designed and tested to fulfill applicable standards for:

- Radio frequency emission when installed according to the instructions and used in its intended environment.
- Immunity to electrical and electromagnetic phenomena when installed according to the instructions and used in its intended environment.

### USA

This equipment has been tested using a shielded network cable (STP) and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

#### Canada

This Class B digital apparatus complies with Canadian ICES-003.

#### Europe

This digital equipment fulfills the requirements for RF emission according to the Class B limit of EN 55022.

This product fulfills the requirements for immunity according to EN 55024 office and commercial environments

#### Australia/New Zealand

This digital equipment fulfills the requirements for RF emission according to the Class B limit of AS/NZS CISPR 22.

#### Japan

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

#### Korea

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

#### Safety

This product complies with IEC/EN/UL 60950-1, Safety of Information Technology Equipment.

#### Disposal and Recycling

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

#### Europe



■ This symbol means that the product shall not be disposed of together with household or commercial waste. Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) is applicable in the European Union member states. To prevent potential harm to human health and the environment, the product must be disposed of in an approved and environmentally safe recycling process. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. Businesses should contact the product supplier for information about how to dispose of this product correctly.

This product complies with the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

#### China



This product complies with the requirements of the legislative act Administration on the Control of Pollution Caused by Electronic Information Products (ACPEIP).

#### Contact Information

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## Safety Information

Read through this Installation Guide carefully before installing the product. Keep the Installation Guide for future reference.

### Hazard Levels

**⚠ DANGER**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**⚠ WARNING**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ CAUTION**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE**

Indicates a situation which, if not avoided, could result in damage to property.

### Other Message Levels

**Important**

Indicates significant information which is essential for the product to function correctly.

**Note**

Indicates useful information which helps in getting the most out of the product.

## Safety Instructions

### **▲WARNING**

- The Axis product shall be installed by a trained professional.

### **NOTICE**

- The Axis product shall be used in compliance with local laws and regulations.
- To use the Axis product outdoors, or in similar environments, it shall be installed in an approved outdoor housing.
- Store the Axis product in a dry and ventilated environment.
- Avoid exposing the Axis product to shocks or heavy pressure.
- Do not install the product on unstable brackets, surfaces or walls.
- Use only applicable tools when installing the Axis product. Excessive force could cause damage to the product.
- Do not use chemicals, caustic agents, or aerosol cleaners. Use a clean cloth dampened with pure water for cleaning.
- Use only accessories that comply with technical specification of the product. These can be provided by Axis or a third party.
- Use only spare parts provided by or recommended by Axis.
- Do not attempt to repair the product by yourself. Contact Axis support or your Axis reseller for service matters

## Transportation

### **NOTICE**

- When transporting the Axis product, use the original packaging or equivalent to prevent damage to the product.

## Installation Guide

This Installation Guide provides instructions for installing AXIS T8133 on your network.

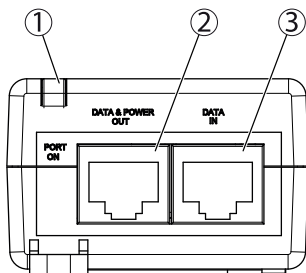
### Installation Steps

1. Make sure the package contents, tools and other materials necessary for the installation are in order. See *page 7*.
2. Study the hardware overview. See *page 8*.
3. Study the specifications. See *page 8*.
4. Install the hardware. See *page 10*.

### Package Contents

- AXIS T8133 Midspan 30W
- AC power cable
- Printed materials
  - Installation Guide (this document)

## Hardware Overview



- 1 *Port LED indicator*
- 2 *DATA & POWER OUT*
- 3 *DATA IN*

## Indicators

Port LED	Indicated Behavior
Yellow On	Power is on (power is active)
Green On	A remote terminal is connected
Green Blinking	Overload state or short-circuit

## Specifications

### Operating Conditions

The Axis product is intended for indoor use.



Mode	Temperature	Humidity
Operating	-20 °C to 40 °C (-4 °F to 104 °F)	10-90% RH (non-condensing)

## Storage Conditions

Mode	Temperature	Humidity
Storage	-20 °C to 70 °C (-4 °F to 158 °F)	10-90% RH (non-condensing)

## Power Consumption

Input Voltage	100 – 240 V AC 50/60 Hz
Maximal Input Current	0.8 Ampere
Available Output Power (max)	30 Watts
Nominal Output Voltage	55 V DC

Power over Ethernet Plus (PoE+) IEEE 802.3at Type 2 Class 4

## Ethernet Interface

<b>Input (Data In)</b> Ethernet 10/100/1000Base-T	RJ45 female socket
<b>Output (Data &amp; Power Out)</b> Ethernet 10/100/1000Base-T, plus 55 V DC	RJ45 female socket, with DC voltage on wire pairs, 4–5 (+) & 7–8 (-)

## Connectors and Buttons

For specifications and operating conditions, see *page 8*.

### Network Connector

RJ45 Ethernet connector. Supports Power over Ethernet (PoE).

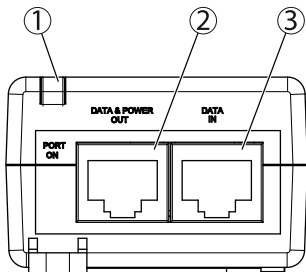
#### **NOTICE**

The product shall be connected using a shielded network cable (STP). All cables connecting the product to the network switch shall be shielded (STP) and intended for their specific use. Make sure that the network switch is properly grounded. For information about regulatory requirements, see *Regulatory Information, on page 2*.

## Install the Hardware

### Installing AXIS T8133

1. Connect the midspan (DATA IN) to the network switch using a network cable.
2. Connect the midspan (DATA & POWER OUT) to the camera using the network cable that has been connected to the camera.
3. Connect the midspan to a grounded (earthed) mains power outlet (100–240 V AC) using the supplied power cable.
4. Make sure that the LEDs on the midspan indicate the correct conditions. See *Indicators, on page 8*



- 1 Port LED indicator
- 2 DATA & POWER OUT (connect to Axis product)
- 3 DATA IN (connect to network)

### NOTICE

- Do not cover the midspan or block the airflow to the PoE with any foreign objects. Keep the midspan away from excessive heat and humidity and free from vibration and dust.
- Ensure that the cable length from Ethernet network source to the terminal does not exceed 100 m (330 ft). The PoE is not a repeater and does not amplify the Ethernet data signal.
- If a splitter is to be used, make sure it is connected close to the terminal and not on the midspan.
- No ON-OFF switch exists, simply plug the midspan into an AC power source.

## Troubleshooting

### AXIS T8133 does not power up

- Remove and re-apply power to the device and check the indicators during power up sequence.

- Verify that the voltage at the power inlet is between 100 – 240 V AC.
- Verify that the power inlet cable is functional.

### **The powered device does not operate**

- Verify that the powered device is designed for PoE operation.
- Verify that a standard Category 5/5e/6, straight-wired cable with four pairs is used.
- Verify that the input Ethernet cable is connected to the DATA IN port.
- Verify that the powered device is connected to the DATA & POWER OUT port.
- If an external power splitter is in use, verify that it works.
- Verify that there is no short over on any of the twisted pair cables or over the RJ45 connectors.
- If possible reconnect the same powered device into a different midspan.

### **The end device operates, but there is no data link**

- Verify that the port on the front panel is continuously lit.
- Verify that a standard Category 5/5e/6, straight-wired cable with four pairs is used.
- Verify that the Ethernet cable length is less than 100 m (330 ft) from the Ethernet source to the load/remote terminal.
- If an external power splitter is in use, verify that it works.
- If possible reconnect the same powered device into a different midspan.

## **Warranty Information**

For information about Axis' product warranty and thereto related information, see [www.axis.com/warranty/](http://www.axis.com/warranty/)



Installation Guide

AXIS T8133 Midspan 30W

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