

AXIS TU8012 120 W Connectivity Midspan DC

For network and fiber installations up to 120 W

AXIS TU8012 is a DC-powered midspan that delivers a power output of 120 W. It can be used to power Axis cameras, radars, or other devices. Not only does it power the camera, but it also monitors its status with regular signal checks. If there's no response within fifteen minutes, this midspan will automatically restart the camera. With portcast technology, it uses the camera's IP address to provide seamless, camera-integrated two-way audio and I/O connectivity. Plus, it supports both digital and unbalanced microphones. With a built-in SFP slot, it's ideal for long-distance installations.

- > [IEEE 802.3bt and Axis High PoE 120 W](#)
- > [Audio and I/O ports](#)
- > [Smart restart](#)
- > [SFP slot for fiber](#)
- > [24–48 V DC](#)



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Midspans

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

10/100/1000 Mbps

Installation and management

Automatically detects PoE and High PoE-enabled devices and supplies inline power.
Status LED indicators

Data & power

DC input

24–48 VDC, max 7 A

Power over Ethernet output

Axis High PoE 120 W with Axis devices, or Power over Ethernet (PoE) IEEE 802.3bt Class 8 with other devices
55 VDC (max 120 W)

Connectors

Shielded RJ45, EIA 568A and 568B
SFP slot
Power connector: 3-pin 5.08 mm terminal block
I/O: 6-pin 2.5 mm terminal block
Audio: 4-pin 2.5 mm terminal block

Wiring

Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet, over all four pairs for Gigabit Ethernet
Power over pairs 1/2 (-), 3/6 (+), 4/5 (+) and 7/8 (-)

Audio

Streaming

Two-way, full duplex

Input

Input for external unbalanced microphone, optional 5 V microphone power
Digital input, optional 12 V ring power
Unbalanced line input

Output

Line output, built-in speaker

Encoding

24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz
Configurable bitrate

I/O functionality

Three configurable inputs/digital outputs
One fixed input
12 VDC output, max load 83 mA

Approvals

Product markings

UL/cUL, CE, RCM, WEEE

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50121-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES(A)/NMB(A)
USA: FCC Part 15 Subpart B Class A
Railway: IEC 62236-4

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, NEMA TS 2 (2.2.7-2.2.9)

Cybersecurity

Edge security

Secure boot

Documentation

AXIS OS Hardening Guide

Axis Vulnerability Management Policy

Axis Security Development Model

AXIS OS Software Bill of Material (SBOM)

To download documents, go to axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Casing

Polycarbonate casing

Color: white NCS S 1002-B

Display and indicators

PoE LED

Power LED

Mounting

Wall, shelf or DIN rail⁽¹⁾

Power

Max DC power consumption: 130 W

Operating conditions

Up to 85 W:

-40 °C to 50 °C (-40 °F to 122 °F)

From 85 W to 120 W:

-40 °C to 35 °C (-40 °F to 95 °F)

Humidity 10–85% RH (non-condensing)

Start-up temperature: -40 °C (-40 °F)

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

Weight

357 g (0.79 lb)

Box content

Midspan, installation guide, owner authentication key

Optional accessories

AXIS T91A03 DIN Rail Clip A

AXIS TA1901 DIN Rail Clip

For more accessories, see axis.com

Warranty

5-year warranty, see axis.com/warranty

Sustainability

Substance control

PVC free

RoHS in accordance with EU RoHS Directive 2011/65/

EU/ and EN 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP
UUID, see axis.com/partner.

Environmental responsibility

axis.com/environmental-responsibility

Axis Communications is a signatory of the UN Global
Compact, read more at unglobalcompact.org

1. Sold as optional accessory

