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*

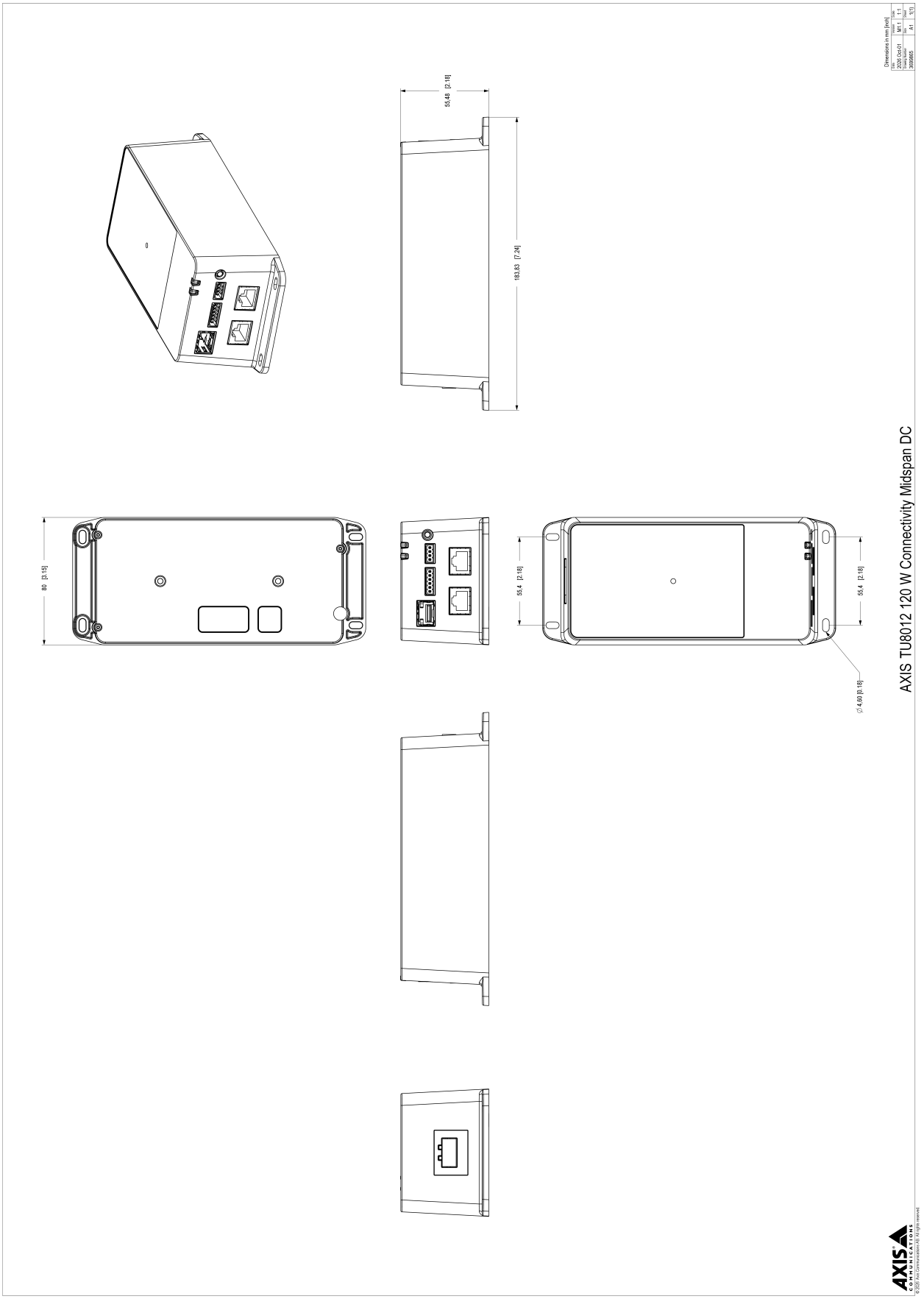
1. *Sold as optional accessory*

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*



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