

# AXIS Camera Station S1296 Rack Recording Server

## Flexible and scalable recording server

Featuring powerful components, this secure, scalable recording server offers high performance and support for powerful applications and features. It includes AXIS Camera Station Pro licenses and multiple RAID configurations for flexible storage and multiple redundancy configuration. And, a Trusted Platform Module (FIPS 140-2 level 2 certified) ensures secure storage of all cryptographic keys and certificates. Available in two variants with a choice of storage, it comes preloaded with preconfigured software. Plus, all supported products are available in one price list for a one-stop-shop experience. Furthermore, it offers services such as Keep Your Hard Drive, Next Business Day Onsite Support, and a 5-year warranty.

- > **Scalable and powerful solution**
- > **Flexible storage options including RAID**
- > **Available in 2 variants: 96 TB and 192 TB**
- > **96 AXIS Camera Station Pro licenses included**
- > **Extensive support and 5-year warranty**



# AXIS Camera Station S1296 Rack Recording Server

## Variants

S1296 Rack 96 TB  
S1296 Rack 192 TB

## Licenses

96 AXIS Camera Station Pro Core Device NVR licenses and 10 AXIS Audio Manager Pro licenses included and tied to the hardware. Can be upgraded with additional licenses (sold separately).

## System scalability

Qualified for 192 doors and a recording bitrate up to 1.5 Gbit/s, 150 video channels at 4 MP, 30 fps in a retail scenario.

Check AXIS Site Designer for storage estimates.

Can be scaled with more devices when using AXIS S30 Recorder Series.

Qualified for 200 simultaneous audio streams using AXIS Audio Manager Pro.

Qualified for up to 1,000 doors with access control only.

Tested with:

20 live view clients

4 clients performing heavy playback or scrubbing operations

## Hardware

### Processor

Intel® Xeon® Silver

### Memory

2x 16 GB

### Storage

#### S1296 Rack 96 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 12

Free HDD slot: 0

Out-of-the-box storage: 80 TB after RAID 6

Out-of-the-box capacity without RAID: 96 TB (12x8 TB)

#### S1296 Rack 192 TB

Hot swappable Enterprise Class HDD

Total HDD slot: 12

Free HDD slot: 0

Out-of-the-box storage: 160 TB after RAID 6

Out-of-the-box capacity without RAID: 192 TB (12x16 TB)

### Operating system drive

2x 480 GB SSD configured with RAID 1 for redundancy<sup>1</sup>

## RAID

Factory RAID level: 6

Supported RAID levels: 0, 1, 5, 6, 10

## Power

2 x 800 W hot-plug redundant power supplies (included)

(100–240 V AC, 12–6.3 A, 50/60 Hz)

## Power consumption

Typical: 260 W (888 BTU/h)

Maximum: 280 W (956 BTU/h)

## Connectors

### Front side:

1x USB 2.0

1x VGA

1x iDRAC direct port

### Rear side:

1x USB 2.0

1x USB 3.0

1x VGA

1x iDRAC dedicated Ethernet port

2x RJ45 1 Gbps (Do not use)

2x RJ45 10 Gbps

## Video

### Video streaming

Not intended for local viewing of video.

Recommended to use Axis workstations.

## Approvals

### Supply chain

TAA compliant

### EMC

EN 55032 Class A, EN 55024, EN 55035, EN 61000-3-2, EN 61000-3-3, FCC Part 2 and 15 Class A, ISSED ICES-003 Class A, RCM AS/NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835, VCCI 32-1 Class A, BSMI

### Safety

IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, EN 62311, NOM-019-SCFI-1998, IS 13252

1. Units produced prior to September 1, 2024: 1x 240 GB SSD. Units produced prior to May 1, 2025: 1x 480 GB SSD.

## Cybersecurity

### Edge security

Support for encrypted operating system drive and recording drive  
FIPS 140-2 level 2 certified Trusted Platform Module (TPM 2.0)  
SBOM  
Secure Boot  
Secure Component Verification (SCV)<sup>2</sup>

## General

### Operating system

Microsoft® Windows® 11 IoT Enterprise LTSC 2024<sup>3</sup>  
Built-in operating system recovery: yes

### Remote server management

iDRAC 9 express license

### Operating conditions

10 °C to 35 °C (50 °F to 95 °F)  
Humidity 20–80% RH (non-condensing)

### Storage conditions

–40 °C to 65 °C (–40 °F to 149 °F)

### Dimensions

Height: 86.8 mm (3.42 in), 2U chassis  
Width: 482 mm (18.98 in)  
Depth without bezel: 707.78 mm (27.87 in)  
Depth with bezel: 721.62 mm (28.41 in)  
Product installation depth<sup>4</sup>: 685.78 mm (27.00 in)  
**Rack rails:**  
Type: sliding, square hole  
Minimum rail depth<sup>5</sup>: 714 mm (28.11 in)  
Rail adjustability range<sup>6</sup>: 631–868 mm (24.84 – 34.17 in)  
For more information, see the Dell EMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

### Weight

S1296 Rack 96 TB 26.1kg (57.54 lb)<sup>7</sup>  
S1296 Rack 192 TB 26.3 kg (57.98 lb)<sup>8</sup>

### Included accessories

Dell Ready Rails 2U Sliding Rails, 2x C13 to C14 power cords for rack PDU (Wall plug power cords are not included)

### Optional accessories

Axis workstations  
Enterprise hard drives  
For more accessories, see [axis.com](https://axis.com)

### Services

Next Business Day Onsite Support  
Keep Your Hard Drive

### Warranty

5-year warranty, see [axis.com/warranty](https://axis.com/warranty)

## Sustainability

### Substance control

RoHS in accordance with EU RoHS Directive 2011/65/EU/, as amended by 2015/863/EU.  
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see [echa.europa.eu](https://echa.europa.eu).

### Materials

Recycled plastics material content: 25.35% (Post Consumer recycled)<sup>9</sup>  
To read more about sustainability at Axis, go to [axis.com/about-axis/sustainability](https://axis.com/about-axis/sustainability)

### Environmental responsibility

[axis.com/environmental-responsibility](https://axis.com/environmental-responsibility)  
Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](https://unglobalcompact.org)

2. Only valid for units produced from September 1, 2024

3. Units produced prior to May 2025: Microsoft® Windows® 10 IoT Enterprise LTSC 2021

4. Measured from the outside-facing surface of the front rack post to the back of the product.

5. Measured from the outside-facing surface of the front rack post until the end of the rail.

6. The allowable distance between the outside-facing surface of the front and rear rack posts.

7. Units produced prior to September 1, 2024: 26.1kg (57.54 lb)

8. Units produced prior to September 1, 2024: 25.6 kg (56.44 lb)

9. Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in EPEAT standard as applies to plastics parts

## **AXIS Camera Station Pro**

For details about AXIS Camera Station Pro features and functions, see the AXIS Camera Station Pro datasheet on *axis.com*

## Highlighted capabilities

### SBOM (Software Bill of Materials)

SBOM is a detailed list of all software components included in an Axis product, including third-party libraries and license information. This list provides customers with insight into the product's software composition, facilitating the management of software security and meeting transparency requirements.

### TPM (Trusted Platform Module)

TPM is a security chip integrated into Axis devices to provide a secure environment for storing and processing sensitive data. As a component providing a set of cryptographic features, the TPM protects information from unauthorized access. Specifically, it securely stores the private key, which never leaves the TPM, and processes all related cryptographic operations within the module itself. This ensures the secret part of the certificate remains safe even in the event of a security breach. By enabling features like encryption, authentication, and platform integrity, the TPM contributes to safeguarding the device against unauthorized access and tampering.

### Secure Boot

Secure Boot is a security system that ensures only approved software (operating system and embedded switch firmware when applicable) runs on an Axis device at startup. It uses a boot process consisting of an unbroken chain of cryptographically validated software, starting in immutable memory (boot ROM), to verify the authenticity of the software. By establishing the trust chain, Secure Boot guarantees that the device only executes software with a valid digital signature, preventing malicious code from running on the device and ensuring the device boots only with a signed software.

For more information, see [axis.com/glossary](https://axis.com/glossary)