

# AXIS Camera Station S1228 Rack AI-Optimized Server

Optimized for free text search within Smart search

Ideal for busy and complex scenes, this state-of-the-art recording server is optimized for AI-based analytics applications and offers accelerated search capabilities using free text search within Smart search. AXIS S1228 Rack AI can handle up-to 10 times more moving objects per minute compared with standard products, thanks to a top-class GPU and CPU delivering state-of-the-art object classification. This secure device uses a Trusted Platform Module (TPM) that is FIPS 140-2 level 2 certified. Produced in a TAA-designated country, it also complies with NDAA FY19 and FY2023 and comes with a Software Bill of Materials (SBOM). Furthermore, this high-performance analytics server comes with 28 AXIS Camera Station Pro licenses, and all necessary software pre-loaded.

- > [Optimized for AI-based analytics applications such as free text search](#)
- > [Ideal for busy scenes with many moving objects](#)
- > [28 AXIS Camera Station Pro licenses with 12 TB storage](#)
- > [Next Business Day onsite support and 5-year warranty](#)
- > [High cybersecurity features and standards](#)



# AXIS Camera Station S1228 Rack AI-Optimized Server

## Licenses

28 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 64 doors and 32 video channels with a total recording bitrate up to 300 Mbit/s. 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  
2 clients performing heavy playback or scrubbing operations

## Capacity

Smart search classification capacity:  
1080p: 3000/min  
720p: 5500/min  
Approximate capacity for the entire system; actual performance may vary.  
Requires Axis Camera Station Pro 6.8 or higher

## Hardware

### Processor

Intel® Xeon® E processor

### Memory

2 x 16 GB

### Storage

Cold swappable Enterprise Class SATA HDD, 7200 rpm.  
Total HDD slots: 2  
Free HDD slot: 1  
Out-of-the-box storage: 12 TB (1x 12 TB)  
960GB SSD (Smart search database)

### RAID

Factory RAID level: Not configured  
Supported RAID levels: 0, 1

### Graphics card

Nvidia® A series

## Power

450 W Platinum  
(100–240 V AC), 6.5–3.5 A, 50/60 Hz

## Power consumption

Typical: 130 W (443.6 BTU/h)  
Maximum: 210 W (716.6 BTU/h)

## Connectors

### Front side:

1x USB 2.0  
1x iDRAC direct port

### Rear side:

1x USB 2.0  
1x USB 3.2  
1x VGA<sup>1</sup>  
4x Mini DisplayPort™<sup>1</sup>  
1x Serial port  
1x iDRAC dedicated Ethernet port  
2x RJ45 1 Gbps

## Video

### Video streaming

Not intended for local viewing of video.  
Recommended to use Axis workstations.

## Approvals

### Supply chain

TAA compliant

### EMC

EN 55035, EN 55024, EN 55032 Class A,  
EN 61000–3–2, EN 61000–3–3  
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A  
Canada: ICES–3(A)/NMB–3(A)  
Japan: VCCI Class A  
Korea: KS C 9835, KS C 9832 Class A  
USA: FCC Part 15 Subpart B Class A  
Taiwan: CNS 15936

### Safety

CAN/CSA C22.2 No. 62368–1 ed. 3, KC–Mark,  
IEC/EN/UL 62368–1 ed. 3, RCM AS/NZS 62368. 1:2018,  
IS 13252

1. Mini DisplayPorts do not produce video during boot. Use VGA instead. Configuration can be changed in BIOS, check user manual.

## 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

## General

### Operating system

Microsoft® Windows® 11 IoT Enterprise LTSC 2024  
Built-in operating system recovery: yes  
Operating system drive: 480 GB SSD

### Remote server management

iDRAC 9 basic license

### Operating conditions

10 °C to 35 °C (50 °F to 95 °F)  
Humidity 8–80% RH (non-condensing)

### Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)  
Humidity 5–95% RH (non-condensing)

### Dimensions

Height: 42.8 mm (1.69 in), 1U chassis  
Width: 482 mm (18.98 in)  
Depth without bezel: 483.14 mm (19.02 in)  
Depth with bezel: 496.8 mm (19.56 in)  
Product installation depth<sup>2</sup>: 461.14 mm (18.16 in)  
**Rack rails:**  
Type: static, square hole  
Minimum rail depth<sup>3</sup>: 622 mm (24.49 in)  
Rail adjustability range<sup>4</sup>: 608–879 mm (23.94 – 34.61 in)  
For more information, see the Dell EMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

### Weight

8.5 kg (18.7 lb)

### Included accessories

Dell Ready Rails 1U Static Rails, C13 to C14 power cord 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)

### Export control

This product is subject to export control regulations, and you should always comply with all applicable national and international export or re-export control regulations.

## 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: 65.0% (Post Consumer recycled)<sup>5</sup>  
To read more about sustainability at Axis, go to [axis.com/about-axis/sustainability](https://axis.com/about-axis/sustainability)

### Environmental responsibility

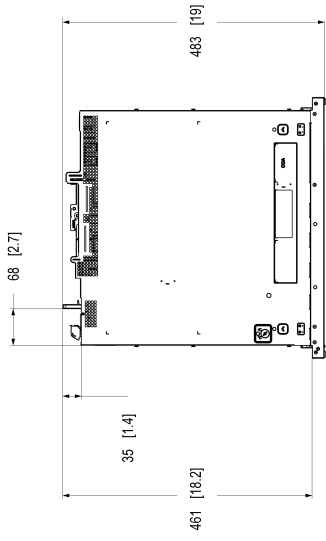
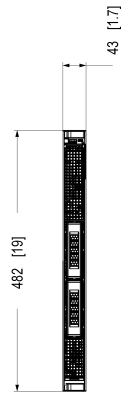
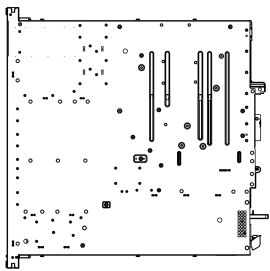
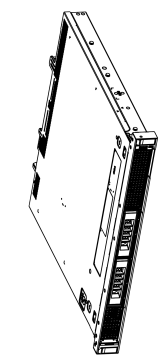
[axis.com/environmental-responsibility](https://axis.com/environmental-responsibility)  
Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](https://unglobalcompact.org)

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

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

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

5. 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



Dimensions in mm [inch]	
2020 Mar-21	W1.1 7.4
1207193	L 41 10.1

AXIS S1224 Rack 12 TB

## 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://www.axis.com/glossary)