

AXIS S4000 Rack Recorder

1U rack recorder for expansion or new installations

This flexible recorder supports new installations and storage expansion. It includes everything needed to reliably store data with three storage variants using surveillance-grade hard drives. Video is encrypted when stored and transmitted, and there's multiple RAID configurations available. Built on AXIS OS, it ensures a high level of cybersecurity. For instance, it offers FIPS 140-3 Level 3 certified, secure cryptographic key storage and operations. It works with Axis network switches and third-party switches to comply with existing internal IT policies. What's more, it's part of an Axis end-to-end solution and fully integrated with AXIS Camera Station Edge and AXIS Camera Station Pro.

- > **Complies with IT policies**
- > **Flexible storage options and RAID**
- > **Easy to install, manage, and maintain**
- > **Leverages AXIS OS cybersecurity**
- > **5-year Axis warranty**



AXIS S4000 Rack Recorder

Variants

AXIS S4000 Rack Recorder 8 TB
AXIS S4000 Rack Recorder 16 TB
AXIS S4000 Rack Recorder 32 TB

Hardware

Processor

i.MX 8QuadMax

Storage

Hot swappable Surveillance Class HDD
Total HDD slots: 4
Free HDD slots: 0
8 TB
Out-of-the-box storage: 6 TB after RAID 5
Out-of-the-box capacity without RAID: 8 TB (4x2 TB)
16 TB
Out-of-the-box storage: 12 TB after RAID 5
Out-of-the-box capacity without RAID: 16 TB (4x4 TB)
32 TB
Out-of-the-box storage: 24 TB after RAID 5
Out-of-the-box capacity without RAID: 32 TB (4x8 TB)

RAID

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

Power

100–240 V AC, 50–60 Hz

Power consumption

Typical power consumption
8 TB: 27 W (92.1 BTU/h)
16 TB: 31 W (105.8 BTU/h)
32 TB: 36 W (122.8 BTU/h)
Maximum power consumption
8 TB: 30 W (102.4 BTU/h)
16 TB: 32 W (109.2 BTU/h)
32 TB: 37 W (126.2 BTU/h)

Noise level

Idle: 22 dB
Typical: 35.5 dB (at ambient temperature)
Maximum: 41 dB

Connectors

Front side:

1x USB 3.0, supported USB class: Mass Storage

Rear side:

1x AUX RJ45 1 Gbps
1x LAN RJ45 1 Gbps
1x LAN SFP 1 Gbps
1x USB 2.0, supported USB class: Mass Storage
1x power connector

Video

Recording

Qualified for recording up to 16 video sources with a total recording rate up to 256 Mbit/s

Video compression

H.264 (MPEG-4 Part 10/AVC), H.265 (MPEG-H Part 2/HEVC)
Depending on camera support
No encoding, decoding, or transcoding

Resolution

Supports all camera resolutions

Frame rate

Supports all camera frame rates

Audio

Streaming

One-way audio recording depending on camera support

Encoding

AAC
Depending on camera support

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS⁽¹⁾, HTTP/2, TLS⁽¹⁾, SFTP, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, NTP, PTP, NTS, RTSP, TCP, UDP, IGMPv1/v2/v3, ICMP, DHCPv4/v6, ARP, SSH, LLDP, IEEE 802.1X (EAP-TLS), IEEE 802.1AR

1. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).

System integration

Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community.
One-click cloud connection

Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro and selected video management software from Axis' partners available at axis.com/vms.

Event conditions

Device status: above/below/within operating temperature, fan failure, IP address blocked/removed, live stream active, network lost, new IP address, system ready
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: manual trigger, virtual input is active
RAID status: RAID degraded/failed/online/syncing
Scheduled and recurring: schedule

Event actions

LEDs: flash status LED, flash status LED while the rule is active
Notification: HTTP, HTTPS, TCP and email
Security: erase configuration
SNMP trap messages: send, send while the rule is active

Event triggers

Hard drive error, hard drive temperature warning, CPU temperature warning, fan error, RAID warning

Approvals

Product markings

UL/cUL, CE, VCCI, NOM, RCM

Supply chain

TAA compliant

EMC

EN 55035, EN 55032 Class A, 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-3(A)/NMB-3(A)
Japan: VCCI Class A
USA: FCC Part 15 Subpart B Class A

Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1 ed. 3, RCM AS/NZS 62368.1:2018, NOM-019, IS 13252

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP20

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS 140

Cybersecurity

Edge security

Software: Signed OS, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140-3 level 3), system-on-chip security (TEE)
Hardware: Axis Edge Vault cybersecurity platform
Secure keystore: secure element (CC EAL 6+, FIPS 140-3 Level 3)
Axis device ID, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security

IEEE 802.1X (EAP-TLS)⁽²⁾, IEEE 802.1AR, HTTPS/HSTS⁽²⁾, TLS v1.2/v1.3⁽²⁾, Network Time Security (NTS), X.509 Certificate PKI

Documentation

AXIS OS Hardening Guide
Axis Vulnerability Management Policy
Axis Security Development Model
To download documents, go to axis.com/support/cybersecurity/resources
To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Supported devices

Axis devices with firmware 5.50 or later
AXIS Companion mini cameras and third-party cameras are not supported

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).

Casing

Steel casing

Color: black NCS S 9000-N

Form factor

Rack 1U

Compatible with EIA-310 racks

Operating conditions

Temperature: 0 °C to 45 °C (32 °F to 113 °F)

Humidity: 10–85% RH (non-condensing)

Storage conditions

Temperature: -20 °C to 65 °C (-4 °F to 149 °F)

Humidity: 5–95% RH (non-condensing)

Dimensions

484 x 402 x 44.1 mm (19.1 x 15.8 x 1.7 in)

Minimum rail depth⁽³⁾: 398 mm (15.7 in)

Product installation depth⁽⁴⁾: 377 mm (14.8 in)

Rail adjustability range⁽⁵⁾: 376–499 mm (14.8–19.6 in)

Weight

8 TB: 9.08 kg (20 lb)

16 TB: 9.22 kg (20.3 lb)

32 TB: 9.98 kg (22 lb)

Box content

Recorder, rack rails, front cover, rubber feet, installation guide, power cord, screws

Optional accessories

AXIS TS3901 Rail Extensions

For more accessories, go to axis.com/products/axis-s4000

System tools

AXIS Site Designer, AXIS Device Manager Extend, product selector, accessory selector

Available at axis.com

Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty

5-year warranty, see axis.com/warranty

Software support

New feature development until 2028 (AXIS OS Active 12 and 13)

Support until 2033-12-31 (AXIS OS LTS 2028)

Read more about the AXIS OS lifecycle at help.axis.com/axis-os

Part numbers

Available at axis.com/products/axis-s4000#part-numbers

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709

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 echa.europa.eu

Materials

Renewable carbon-based plastic content: 72% (recycled)

Screened for conflict minerals in accordance with OECD guidelines

To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

Environmental responsibility

axis.com/environmental-responsibility

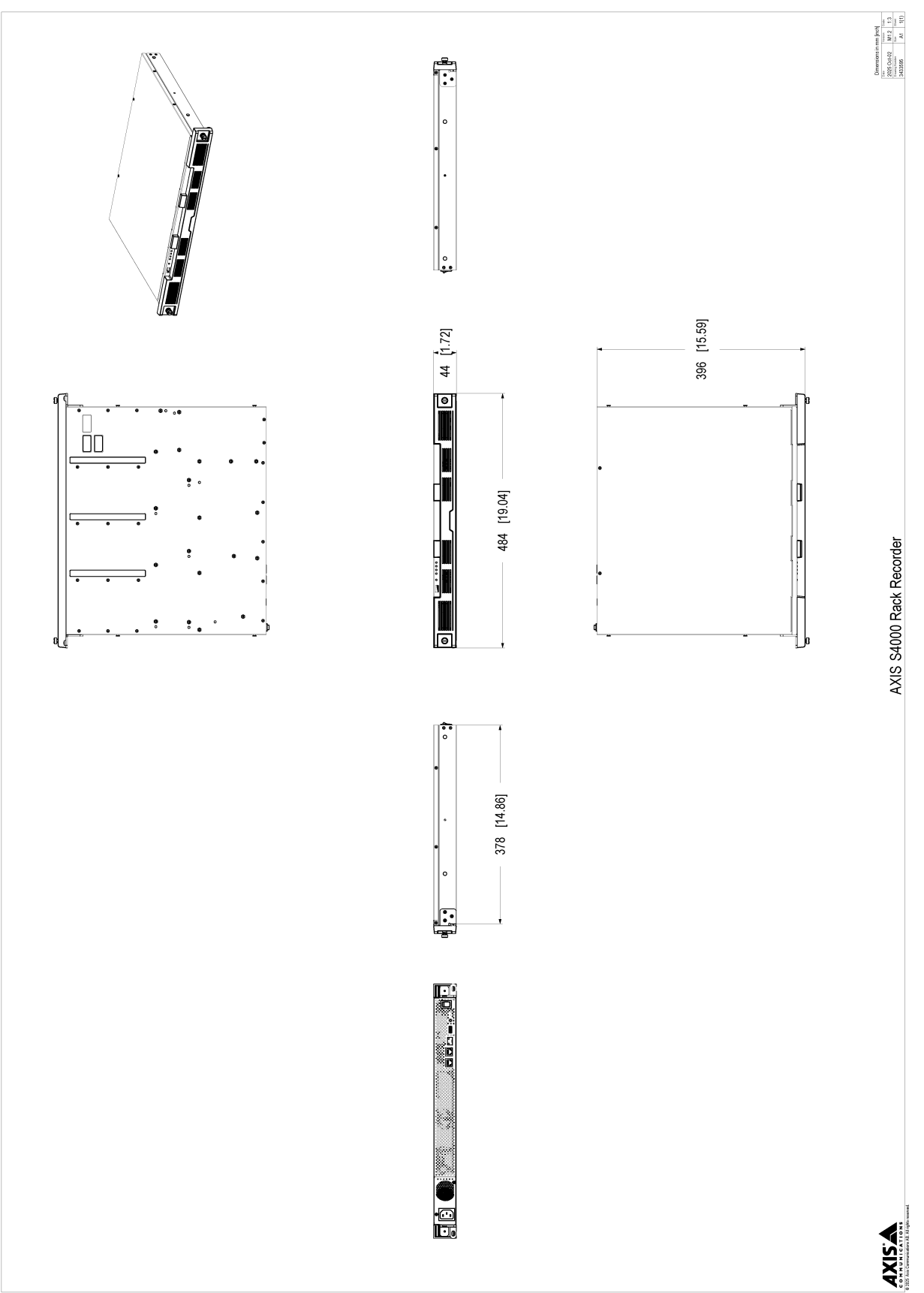
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

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

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

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

Dimension drawing



Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, **secure boot** ensures that a device can boot only with **signed OS**, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the **secure keystore** is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

For more information, see axis.com/glossary