

AXIS TP3604-E Cellular Back Box

Built for private cellular networks

This all-in-one, cost-effective solution makes it easy to connect AXIS P32 and AXIS P14 cameras to your existing private cellular network (PCN) with no trenching required. Additionally, PCNs are ideal for outdoor environments and require fewer access points, lower maintenance costs, and provide a longer lifetime compared to WiFi. Simply insert a PCN SIM card into this back box, mount the camera directly on top, and install the back box and attach the camera wherever PCN coverage and AC power are available. Plus, it connects to a mains power in a light pole or a preexisting midspan.

- > **For use with existing private cellular networks (PCNs)**
- > **Easily connect AXIS P32 and AXIS P14 cameras**
- > **Wide area coverage with excellent image quality**
- > **Encrypted SIM for secure connectivity**
- > **Reliable uplink performance**



AXIS TP3604-E Cellular Back Box

Variants

AXIS TP3604-E Cellular Back Box
AXIS TP3604-E Cellular Back Box US

Supported products

AXIS P14 Bullet Camera Series (with AXIS TP1601 Adapter Plate)
AXIS P32 Dome Camera Series

System on chip (SoC)

Model

NXP i.MX 8M Nano

Memory

1 GB RAM, 1 GB Flash

Network

Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, PTP, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)

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, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.

Event conditions

Device status: above/below/within operating temperature, casing open, IP address blocked/removed, live stream active, network lost, new IP address, system ready
I/O: manual trigger, virtual input is active
MQTT: MQTT client connected, stateless
Scheduled and recurring: schedule

Event actions

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

Approvals

Product markings

AXIS TP3604-E Cellular Back Box: CE, UL
AXIS TP3604-E Cellular Back Box US: FCC, UL

Supply chain

TAA compliant

EMC

AXIS TP3604-E Cellular Back Box US: USA:
FCC Part 15 Subpart B Class B

Safety

AXIS TP3604-E Cellular Back Box:
IEC/EN/UL 62368-1 ed. 3
AXIS TP3604-E Cellular Back Box US:
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, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK10, NEMA 250 Type 4X

Wireless

AXIS TP3604-E Cellular Back Box: EN 62311, EN 301489-1, EN 301908-1, EN 301489-52, EN 301908-13, EN 301908-25
AXIS TP3604-E Cellular Back Box US: FCC Part 96, FCC Part 2 Subpart J

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 (ey@cryptsoft.com).

Cybersecurity

AXIS TP3604-E Cellular Back Box: EN 18031-1, ETSI EN 303 645, FIPS 140
AXIS TP3604-E Cellular Back Box US:
ETSI EN 303 645, FIPS 140

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, 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 140-2 level 1)

Hardware: Axis Edge Vault cybersecurity platform
Secure keystore: secure element (CC EAL 6+, FIPS 140-3 Level 3), system-on-chip security (TEE)
Axis device ID, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS², TLS v1.2/v1.3², Network Time Security (NTS), X.509 Certificate PKI, host-based firewall, WPA/WPA2-Enterprise (EAP-TLS, EAP-PEAP/MSCHAPv2), WPA/WPA2-PSK

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

Throughput

Video streaming 200 Mbit/s

Wireless interface

4G Standalone and 5G Standalone (NSA not supported)

AXIS TP3604-E Cellular Back Box: Bands B42, B43, n78

AXIS TP3604-E Cellular Back Box US: Bands B48, n48

Casing

IP66-, and IK10-rated

Aluminum casing

Color: white NCS S 1002-B

For repainting instructions, go to the product's support page. For information about the impact on warranty, go to axis.com/warranty-implication-when-repainting.

Mounting

Mounting bracket with junction box holes (double-gang, single-gang)

3/4" (M25) conduit side entries

Power

100–130 V AC, 50/60 Hz, 1 A or 200–240 V AC, 50 Hz, 0.5 A. Max 26 VA, 13 W, typical 14 VA, 7 W

Power over Ethernet (PoE) IEEE 802.3af/802.3at/802.3bt Type 3 Class 5, max 13 W

For PoE output IEEE 802.3at, Type 2 Class 4, it is required to power the back box with AC.

For PoE output IEEE 802.3af, Type 1 Class 3, it is required to power the back box with IEEE 802.3at, Type 2 Class 4 or AC.

Connectors

Network: RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE

Power: AC input, terminal block, RJ45 PoE

SIM card

Nano-SIM (4FF)

Operating conditions

Temperature: -40 °C to 50 °C (-40 °F to 122 °F)

Humidity: 10–100% RH (non-condensing)

Storage conditions

Temperature: -40 °C to 85 °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

1420 g (3.1 lb)

Box content

Installation guide, TORX® T20 screw driver, RESISTORX® L-key, terminal block connector, connector guard, cable gaskets, owner authentication key,

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 (ey@cryptsoft.com).

System tools

AXIS Site Designer, AXIS Device Manager, 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

Part numbers

Available at axis.com/products/axis-tp3604-e#part-numbers

Optional accessories

Mounting

AXIS T94R01B Corner Bracket, AXIS T91B47 Pole Mount

For more accessories, go to axis.com/products/axis-tp3604-e#compatible-products

Sustainability

Substance control

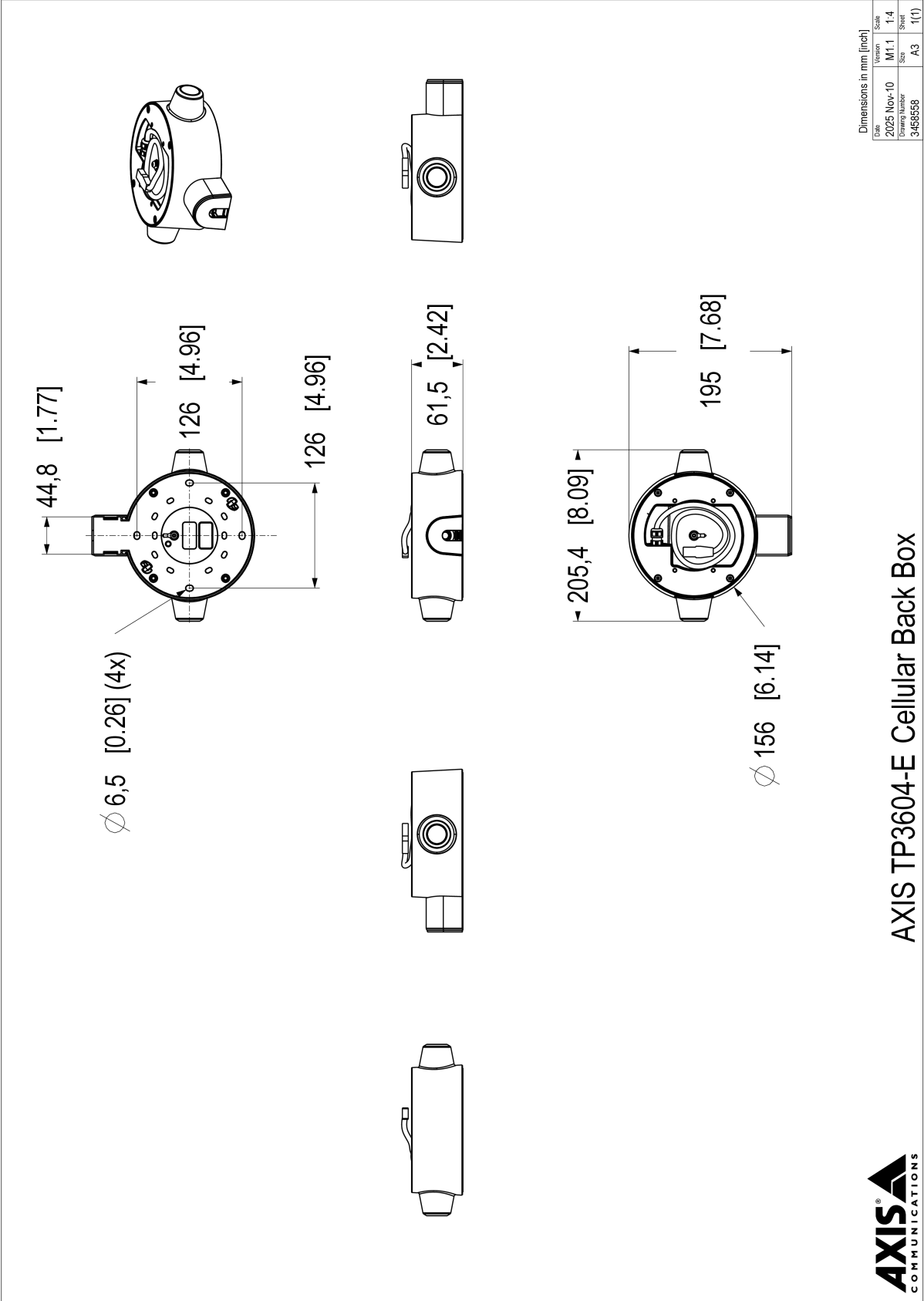
PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709
RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

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



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