PRELIMINARY Datasheet

AXIS Q8641–E PT Thermal Network Camera

For completely unobstructed views and long-distance detection

AXIS Q8641-E PT Thermal Network Camera offers outstanding thermal contrast and 17° field of view, which together with analytics, enables long-range detection and immediate visual confirmation for the operator. It is a highly responsive and reliable positioning camera, designed for continuous and jerk-free pan and tilt movements (360° endless and 135° from ground to sky). When column-mounted, it enables 360° unobstructed field of view, covering a wide area and reducing the cost for additional cameras. AXIS Q8641-E provides 384x288 thermal resolution, Zipstream and Electronic image stabilization. The SFP slot enables optic fiber connection over long distances.

- > Reliable thermal detection
- > Outstanding thermal contrast – 384x288 resolution
- > Responsive positioning with quick, smooth pan and tilt capabilities
- > Save bandwidth with Zipstream
- > Smooth and steady video with electronic image stabilization

AXIS Q8641–E PT Thermal Network Camera

Models	AXIS Q8641-E 35 mm 30 fps AXIS Q8641–E 35 mm 8.3 fps
Camera	
Image sensor	Uncooled Micro bolometer 384x288, pixel size: 17 µm Spectral range: 8-14 µm
Lens	Athermalized Horizontal field of view: 10.7° view, F1.2
Sensitivity	NETD < 70 mK
Pan/Tilt	Pan: 360° endless, 0.05°–120°/s Tilt: –90 to +45°, 0.05°–65°/s. Jerk-free movements at low speed: σ < 0.01°/s (at 0.05°/s) Preset accuracy: 0.05° De-icing control by VAPIX® 256 preset positions, Guard tour, Control queue, On-screen directional indicator
Video	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolutions	Sensor is 384x288. Image can be scaled up to 768x576.
Frame rate	Up to 8.3 fps and 30 fps
Video streaming	At least three H.264 and Motion JPEG streams, simultaneous and individually configured in max. resolution in full frame rate Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264
Image settings	Compression, brightness, sharpness, contrast, exposure zone, text and image overlay, mirroring of images, electronic image stabilization, multiple palettes
Network	
Security	Password protection, IP address filtering, HTTPS[a] encryption, network fail-over link[b],IEEE 802.1X[a] network access control, digest authentication, user access log, centralized certificate management
Supported protocols	IPv4/v6, HTTP, HTTPS[a], SSL/TLS[a], QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
System integration	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *www.axis.com* AXIS Video Hosting System (AVHS) with One-Click Connection ONVIF® Profile S and ONVIF® Profile G, specification at *www.onvif.org*
Analytics	**Included** AXIS Video Motion Detection, shock detection **Supported** AXIS Perimeter Defender Support for AXIS Camera Application Platform enabling installation of third-party applications, see *www.axis.com/acap*
Event triggers	Analytics, temperature, external input, time scheduled, edge storage events, PTZ preset
Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS, TCP and SNMP trap External output activation Video recording to edge storage Pre- and post-alarm video buffering PTZ preset, Guard tour, Overlay text
Data streaming	Event data
Built-in installation aids	Pixel counter
General	
Casing	IP66– and NEMA 4X-rated powder coated aluminum Color: White NCS S 1002–B Front window: Germanium Sunshield: High-impact UV-stabilized thermoplastic
Sustainability	PVC free
Memory	512 MB RAM, 256 MB Flash
Power	24 V AC/DC Typical: 16 W Max: 182 W TVS 2000V, surge protection, voltage transient protection **I/O connector** Output power: 12 V DC Max load: 50 mA
Connectors	SFP slot (SFP module not included) [b] RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector [b] Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs
Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see *www.axis.com*
Operating conditions	-40 °C to 60 °C (–40 °F to 140 °F) Humidity 10–100% RH (condensing) **Wind load when PT operational** 52 m/s (117 mph)[c] Maximum effective projected area (EPA): 0.119 m^2
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Approvals	**EMC** EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A ITE, RCM AS/NZS CISPR32 Class A **Safety** IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 **Environment** To be entered.
Dimensions	557 x 229 x 289 mm (22 x 9 x 11 in)
Weight	12 kg (26.5 lb)
Included accessories	Torx® T20 bit, Torx® T30 bit Connector Kit Installation guide, Windows decoder 1-user license
Optional accessories	AXIS T8415 Wireless Installation Tool AXIS T94J01A Wall Mount AXIS T94N01G Pole Mount AXIS T91A64 Corner Bracket AXIS Cable 24 V DC/24-240 V AC 22 m AXIS T8611 SFP Module LC.LX AXIS T8612 SFP Module LC.SX AXIS T8613 SFP Module 1000BASE-T For more accessories, see *www.axis.com*
Video management software	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on *www.axis.com/support/downloads*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see *www.axis.com/warranty*
Export control	This product is subject to export control regulations. You should always consult and comply with the regulations of the appropriate local export control authorities.

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
b. *If a network link is established via both the SFP slot and the RJ45 connector, the former acts as the primary link and the latter as the fail-over link.*
c. *The values shown are based on results from actual wind tunnel testing. The maximum wind load when the unit is stationary is not known due to wind speed limit of 60m/s at the test lab. For drag force calculations, use maximum effective projected area (EPA).*

Environmental responsibility:

www.axis.com/environmental-responsibility

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