

S-64 E V2

4-ch H.264/MJPEG video encoder, data & digital I/O

DESCRIPTION

Take your analogue CCTV network to the digital realm of IP with our S-series video encoders. The 4-channel S-64 E v2 converts 4 analogue video signals into H.264 IP streams. Each input can stream 2 independent streams. The S-64 E v2 also features a combined Quad stream showing all 4 inputs in one single stream. This four-channel video encoder delivers crystal clear, low-bandwidth video and proven interoperability by ONVIF Profile S and Siqura's SPI.

FEATURES

Four-channel H.264 video encoder

Edge recording

960H Support

Advanced tamper detection

Image quality monitor

NEMA TS 2 compliant

NTCIP protocol support

Audio*, Digital I/O

ONVIF Profile S





Description

The Siqura S-64 E v2 is a versatile and cost-effective four-channel H.264 video encoder featuring multi-streaming, low-latency, and crystal-clear highly detailed video. The "no audio" version (NA) has been temporarily been introduced to overcome the component crises causing severe shortage of audio chips.

Quad Stream

The 4-channel encoder combines the 4-input signals into one single stream Quad image, thus saving bandwidth and precious recording capacity.

ONVIF and Sigura Programming Interface (SPI)

The S-64 E v2 supports the international ONVIF standard for remote control, configuration, video switching, and streaming. The encoder has been approved for ONVIF Profile S for streaming, PTZ, and I/O. An alternative control interface is the SPI, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

Edge recording

The S-64 E v2 offers edge recording for each video input. A recording is activated when the connection with the network recorder is lost. The missing images are available as AVI, which can easily be downloaded from the device. The recordings are stored on a single μ SDHC card with a maximum capacity of 32 GB or on a NAS.

Picture enhancement

The S-64 E v2 connects to every analogue camera, even if it is not of the best quality. With a range of tools it enhances the video to a crisp, clear image. Camera noise can be eliminated by Siqura's 3D adaptive noise reduction and interlacing artifacts are removed by motion adaptive de-interlacing (M.A.D.). Brightness, contrast, hue, and sharpness of the image can be adjusted for the best result.

Image quality monitor and tamper detector

When the image from the camera becomes too poor, even for the encoder to enhance, an Image Quality alert is raised. The image is continuously monitored on contrast, exposure, focus, and noise by Siqura's unique Image Quality Monitor. In addition, the built-in tamper detector monitors changes in the position or field of view of the camera. The instant a camera's position is changed a Tamper Detect alert is raised.



Audio, I/O contacts, and serial data

By combining audio, digital I/O contacts, and data with streaming video, the S-64 E v2 provides all the interfaces necessary for any IP CCTV application. The S-64 E v2 supports 1x audio output, 4x audio inputs, 1x PTZ/serial RS-485 data, and 8x digital I/O.

(c)20241119



Video		
Number of channels	4x PAL/NTSC autodetect	
Input level	1 Vpp (3 dB)	
Compression algorithm(s)	H.264, MJPEG	
Encoding latency	<125 ms	
Resolution	D1, 2/3D1, 1/2D1, 2CIF, CIF, VGA	
GOP structure	I, IP Frame rate 1 to 30 fps	
Dual streaming	2x Full frame rate at D1 resolution	
Total max frames @ D1	175 fps (total of all inputs and streams.)	
Quad streaming	Independent stream with all four inputs in a Quad	
Quad stream resolution	SXGA (1440 x 1152), 960H, D1, 2/3D1, 1/2D1, 2CIF, CIF, VGA	
Output data rate	56 kb/s up to 6 Mb/s per encoder (2 per input)	
Local recording	Micro SD/SDHC up to 32 GB; NAS (Support NFS, SMBv1/CIFS)	
On-screen display	3x Text lines (fully configurable), 1x graphical image (BMP, GIF or JPEG)	
Input impedance	75 or Hi-Z	
Connector type	BNC (with gold-plated center pin)	
Video enhancement per input		
Deinterlacing	Motion Adaptive Deinterlacing (M.A.D.)	
Noise filter	3D Adaptive noise reduction	
Image enhancement	Adjust contrast, brightness, saturation, hue, and sharpness; Automatic (mist) correction	
Video analytics per input		
Video motion detection	Based on movement detection in free-drawn ROI	
Image quality monitor	Monitors focus, exposure, contrast, and noise	
Advanced tamper detection	Blocked or moved field of view; multiple reference images per video input	
Audio (Not supported by the NA version)		
Audio in	4 channels in (line level) or 2 channels line level and 2 channels mic level (with bias)	
Audio out	1 channel out (line level)	
Interface	G.711 (U-law or A-law selectable)	
Data		
Number of channels	2 full duploy	
Interfaces	2 full-duplex	
Serial interface	1x RS-422/485 (2- or 4-wire), 1x RS-232	
	TCP/UDP	
PTZ protocols	Pelco P, Pelco D, Bosch, Vicon, Samsung, Panasonic, etc. (Bidirectional PTZ is not supported and the support of	
Data rate	300 b/s to 115.2 kb/s	
Connector type	Spring clamp plug	
Digital I/O		
Number of I/O channels	8x Digital I/O	
Output mode	Open collector, 24 V, 2 A max DC	
Input mode	Internal pull-up 3.3 V, 2.2 k threshold 1.2 V	

Specs



Management LED status indicator Power on and operational; identify Network management and control HTTP API (SPI), ONVIF Profile S Transmission interface Number of interfaces 1 x RJ-45 Interface 10/100/1000Base-TX, autonegotiation Protocols IPv4, IPv6 ready, HJ264 HP, HJ264 MP, (MJUPEG, RTP, RTSP, RTCP, TLS(SSL), DHCP, DNS, IGMPv3, NTP, HTTP(s), SAP, UPnP, DiffServ, FTP, SNMP v2c, SSM, NTCIP, NFS, SMBv1/C Powering Input voltage 9-15 Vdc Power consumption 6.7 W Environmental Operating temperature S-64 E v2 -10 °C to +60 °C (+14 °F to +140 °F) -5-64 E v2-XT /SA -40 °C to +75 °C (-40 °F to +167 °F) William Standard NEMA TS 2 compliant Mechanical Dimensions (h x w x d) 128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in) Meight 450 g (15.80 oz) Rocking information Ordering information S-64 E v2 4-ch HJ264/MJPEG video encoder, audio, data & digital I/O -5-64 E v2/SA 4-ch HJ264/MJPEG video encoder, audio, data & I/O, SA -6-64 E v2/SY /SA -6-64 E v2/SY /S	Digital I/O				
User authentication three-level user access - indication of password strength RTSP and HTTP access authentication None, Basic, and Digest authentication Port authentication IEEE 802.1x (EAP or MDS) Secure Socket TLS1.2 protocol with 256 bit AES HTTPs streaming Yes Management LED status indicator Network management and control HTTP API (SPI), ONVIF Profile S Transmission interface Number of interfaces Number of interfaces 1x RJ-45 Interface 10/100/1000Base-TX, autonegotiation Protocols IPv4, IPv6 ready, H.264 HP, H.264 MP, (M)JPEG, RTP, RTSP, RTCP, TLS(SSI), DHCP, DNS, IGMPv3, NTP, HTTP(s), SAP, UPnP, Diffserv, FTP, SNMP v2c, SSM, NTCIP, NFS, SMBv1/C Powering Input voltage 9-15 Vdc Power consumption 6.7 W Environmental Operating temperature 5-64 E v2 10 °C to +60 °C (+14 °F to +140 °F) Set 4 E v2 XT /SA 40 °C to +75 °C (-40 °F to +167 °F) Relative humidity up to 95%, noncondensing MTBF 200,0000 hours Safety and EMC IEC/EN 60950-1, IEC/EN 61000-6-3, IEC/EN 61000-6-2, EN 55022, FCC part 15 NEMA Standard NEMA TS 2 compliant Mechanical Dimensions (h x w x d) 128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in) Weight 450 g (15.80 oz) Power supply cabinet, 19/3RU Ordering information Ordering inf	Connector type	Spring clamp plug			
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Port authentication IEEE 802.1x (EAP or MDS)	User authentication	three-level user access - indication of password strength			
Secure Socket TLS1.2 protocol with 256 bit AES	RTSP and HTTP access authentication	None, Basic, and Digest authentication			
### HTTPs streaming Yes	Port authentication	IEEE 802.1x (EAP or MD5)			
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Power consumption S-64 E v2		<u> </u>	IGMPv3, NTP, HTTP(s), SAP, UPnP, DiffServ, FTP, SNMP v2c, SSM, NTCIP, NFS, SMBv1/CI		
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S-64 E v2	Power consumption	6.7 W	6.7 W		
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Safety and EMC	·				
Mechanical Dimensions (h x w x d) 128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in) Weight 450 g (15.80 oz) Housing Rack-mount or stand-alone Ordering information S-64 E v2 4-ch H.264/MJPEG video encoder, audio, data & digital I/O S-64 E V2 /SA 4-ch H.264/MJPEG video encoder, audio, data & I/O, SA S-64 E v2-XT /SA 4-ch H.264/MJPEG video enc, audio, data & I/O, ext.temp, SA MC 11 AC-230 Power supply cabinet, 19/3RU					
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Ack-mount or stand-alone Ordering information S-64 E v2	Dimensions (h x w x d)	128 x 34 x 190 mm (5.04 x 1.3	128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in)		
Ack-mount or stand-alone Ordering information S-64 E v2	Weight	450 g (15.80 oz)			
S-64 E v2 4-ch H.264/MJPEG video encoder, audio, data & digital I/O S-64 E V2 /SA 4-ch H.264/MJPEG video encoder, audio, data & I/O, SA S-64 E v2-XT /SA 4-ch H.264/MJPEG video enc, audio, data & I/O, ext.temp, SA MC 11 AC-230 Power supply cabinet, 19/3RU	Housing				
S-64 E v2 4-ch H.264/MJPEG video encoder, audio, data & digital I/O S-64 E V2/SA 4-ch H.264/MJPEG video encoder, audio, data & I/O, SA S-64 E v2-XT/SA 4-ch H.264/MJPEG video enc, audio, data & I/O, ext.temp, SA MC 11 AC-230 Power supply cabinet, 19/3RU	Ordering information				
S-64 E V2 /SA 4-ch H.264/MJPEG video encoder, audio, data & I/O, SA S-64 E v2-XT /SA 4-ch H.264/MJPEG video enc, audio, data & I/O, ext.temp, SA MC 11 AC-230 Power supply cabinet, 19/3RU		4-ch H.264/MJPEG video enc	4-ch H 264/M IPEG video encoder audio, data & digital I/O		
S-64 E v2-XT /SA 4-ch H.264/MJPEG video enc, audio, data & I/O, ext.temp, SA MC 11 AC-230 Power supply cabinet, 19/3RU	<u> </u>		-		
MC 11 AC-230 Power supply cabinet, 19/3RU					
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		Power supply cabinet, 17/3RU			





Ordering information	
MC 10 AC-230	Dual power supply cabinet 19/3RU
MC 10 AC-115	Dual power supply cabinet 19/3RU
PSR-12 DC v2 (for /SA)	Power supply unit, rail-mount, 85 - 264 Vac, 12 Vdc at 1.5 A