

## Features

- Four-channel H.264 video encoder
- ONVIF Profile S
- 2x D1 at 30 fps H.264
- Duplex serial data
- Video motion detection
- Open Streaming Architecture
- Camera health check
- Tamper detection



## S-64 E v1

### 4-channel H.264 Video Server

#### Description

Siqura's S-64 E v1 is a versatile and cost-effective four-channel H.264 video server featuring low-latency and crystal-clear highly detailed video.

#### Open Streaming Architecture (OSA) and ONVIF

The S-64 E v1, designed with OSA, offers standardised streaming video and remote control based on a comprehensive HTTP API giving access to all controls and making integration easy. Additionally, the S-64 E v1 fully supports ONVIF. It has been tested to support ONVIF Profile S.

#### Dual H.264 streaming per channel

The versatile S-64 E v1 is capable of simultaneously streaming two independent H.264 streams per channel. The H.264 implementation is based on dedicated hardware resulting in unparallelled video quality.

#### Data and PTZ

The serial data port can be used to transport two-way RS-485 over IP or it is used to drive PTZ cameras. The S-64 E v1 supports a number of unidirectional PTZ protocols, such as Pelco D and Pelco P.

#### Camera health check

The S-64 E v1 is fitted with a unique feature which checks the health of the camera. This image quality monitor analyses contrast, exposure, sharpness, and noise, and immediately alerts an operator for any malfunctioning. Camera tampering algorithms make a comparison with predefined reference images to detect any changes in position or field of view, such as if the camera becomes partially or fully blocked, or if mock-up images are placed in front. The camera health check ensures that the appropriate authorities are notified the instant a camera is no longer usable due to failure or tampering.

# Technical Specifications

## S-64 E v1

### Video

Number of channels	4x PAL/NTSC autodetect
Input level	1 Vpp ( $\pm 3$ dB)
Compression algorithm(s)	H.264 (ISO/ IEC 14496-10)
Types of streaming	UDP/IP (unicast, multicast, multi-unicast)
Number of output streams	Up to 20
Input impedance	75 $\Omega$ or Hi-Z
Encoding latency	<130 ms
Sampling resolution	D1, 2/3D1, 1/2D1, 2CIF, CIF, QCIF, VGA
GOP structure	I, IP
Frame rate	1 to 30 fps
Number of encoders	2x H.264 (each D1 @ 30 fps maximum) + 1x MJPEG (D1 @ 6 fps LiveView for HTTP) per input
Output data rate	56 kb/s up to 4 Mb/s per encoder (2 per input)
Video parameters	Contrast, brightness, hue, and saturation
On-screen display	3x Text lines (fully configurable), 1x graphical image (BMP, GIF or JPEG)
Live view encoder	HTTP stream or "pull"
Connector type	75 $\Omega$ BNC (gold-plated centre pin)

### Data

Number of channels	1 full-duplex
Number of interfaces	1x RS-422/485 (2- or 4-wire)
Stream	TCP/UDP/MX configurable
Data rate	300 b/s to 115.2 kb/s
Connector type	RJ-45

### Video analytics

Video motion detection	Based on movement detection in free-drawn ROI, per input
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### Camera health check

Tamper detection	In free-drawn ROI: blocked and partially blocked view, spraying, cloaking, changed position, per input
Image quality monitor	In free-drawn ROI: focus, contrast, exposure and noise measurement per input

### Transmission interface

Number of interfaces	1
Interface(s)	10/100Base-TX Fast Ethernet, autonegotiation, half-duplex/full-duplex, 10/100 Mb selectable
SFP option	Empty SFP slot for 100 Mbps SFP device
Protocols	H.264 BP, (M)JPEG, RTP, RTSP, RTCP, DHCP, SNMPv3/v2, IGMPv2, NTP, HTTP, SAP, UPnP, DiffServ, TelNet, FTP, ONVIF, SSM
Connector type	RJ-45

### Management

LED status indicators	Power-on and operational
Network management and control	SNMP, MX™, HTTP API (SPI), HTML (password protected)

# Technical Specifications

## S-64 E v1

### Powering

Power consumption	7.5 W at 12 Vdc
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### Environmental

Operating temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Extended Temperature (XT) option	-40 °C to +74 °C (-40 °F to +165 °F)
Relative humidity	<95% with no condensation
MTBF (Mean Time Between Failures)	>200,000 hours
Safety and EMC	EN 50155, EN 50121-3-2, in conformity with CE regulations, UL
Vibration and shock	EN 50155, EN61373

### 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

Models	Description
S-64 E v1	4-channel H.264/MJPEG video encoder with data
S-64 E v1-XT	4-channel H.264/MJPEG video encoder with data and extended temperature range
S-64 E v1-SFP	4-channel H.264/MJPEG video encoder with data and empty 100 MB SFP slot
S-64 E v1 /SA	Stand-alone version of rack-mount models



The quality management system utilized in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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