

Siqura S-54 E

Features

- 4-channel MPEG4/MJPEG video server
- Compact design for high density video
- Open Streaming Architecture
- Triple streaming support
- Simultaneous MPEG-4 and MJPEG
- Duplex serial data
- Video Motion Detection
- 3-level access control
- SNMP and network time (NTP) support
- Remotely upgradeable



Description

The Siqura® S-54 E 4-channel video server is an open, compact, and cost-effective solution for IP video monitoring applications. It also offers low-latency, low-bandwidth, and DVD-quality MPEG-4 video and, easy to decode, low frame rate MJPEG. Each channel can transmit these streams simultaneously, at different resolutions and frame rates.

Open Streaming Architecture (OSA)

The S-54 E is designed with a strong focus on standardization. Its OSA offers standardized streaming video and remote control. All streaming protocols are based on approved standards and tested with different vendors. A comprehensive HTTP API gives access to all controls and makes integration with third-party VMS easy. The API is available at www.Optelecom-NKF.com. In addition, the S-54 E supports Siqura®'s unique MX™ protocol.

Triple Streaming per Channel

The versatile S-54 E video server is capable of streaming two MPEG-4 and MJPEG simultaneously. Each stream is optimized for its purpose, e.g., high-quality MPEG-4 for live viewing, low bandwidth, low frame rate MPEG-4 for storage, and low resolution MJPEG for web applications or remote devices (e.g., PDAs).

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Data

Combining streaming video with serial data over IP, the S-54 E provides the necessary interface for any CCTV application (PTZ control, access control, etc.). Internal Video Motion Detection can be used for automated security solutions or event-triggered storage.

Web Interface

Configuration, management, and live viewing are simplified by the access-controlled web interface. Full in-band control is available through Siqura®'s MX™ Configuration Tool Kit or the HTTP API. The Siqura S-54 E is field-upgradeable.

IP Surveillance Solutions

S-54 E 4-channel video servers are part of Siqura®, a complete collection of video surveillance equipment and solutions. Siqura® offers video codecs/servers, IP cameras, video management, network storage, and configuration software.

Ordering information

Model	Description	Housing	Managed
Siqura S-54 E	4-Channel MPEG-4/MJPEG video encoder w/ data	Rack-mount	HTTP/SNMP/MX
Siqura S-54 E /SA	Stand-alone version of rack-mount models	Stand-alone	HTTP/SNMP/MX

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Technical Specifications

Video

Video Channels	4x PAL/NTSC (Auto/PAL/NTSC)
Input level	1 Vpp (± 3 dB)
Compression algorithm	MJPEG, MPEG-4 (ISO/IEC 14496-2, ISMA comp.)
Type of streaming	UDP/IP (multi- and/or unicast)
Number of output streams	Up to 20 per channel
Input impedance	75 Ω /Hi-Z selectable
Video Motion Detection	Yes (user-defined masking)
Encoding latency	<130 ms
Resolution	D1, 1/2D1, 2CIF, CIF, QCIF, VGA
GOP structure	I, IP (selectable/user profiles)
Frame rate	1 to 30 fps
Triple Streaming: ¹	
25/30 fps MPEG-4	1xD1 + 1x 2CIF + MJPEG
25/30 fps MPEG-4/MJPEG	1xD1 + 1xD1 + MJPEG
Output data rate	up to 14 Mb/s per channel (CBR or VBR selectable/user profiles)Video Settings
Video Settings	User profiles, contrast, brightness, color saturation, hue, sharpness
On Screen Display (OSD)	3x Text lines (configurable: position, color, border/outline color, font size), 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)
Live View encoder	HTTP, FTP pull
Connector type	BNC 75 Ω (gold-plated center pin)

Data

Number of channels	1x (full-duplex)
Number of streams	2x 3 (multi- and/or unicast)
Interfaces	1x RS422/485 (2- or 4-wire)
Stream	1x TX, 4x RX; TCP/UDP/MX configurable
Data rate	300 b/s to 115 kb/s
Connector type	RJ45

Transmission Interface

Number of interfaces	1
Interface	10/100Base-TX Fast Ethernet, Auto Negotiation, half-duplex/full-duplex, 10/100 Mb
Protocols	MPEG-4 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHCP, IGMPv2, (S)NTP, MX/IP, HTTP, SNMP v2, FTP, TelNet, DiffServ, SAP, UPnP
Connector type	RJ45

Management

Led status indicators	DC NV SYNC	Power-on indicator (green) No video on input (red) All links are operational (green); failure in RX stream(s) (yellow); failure in TX stream(s) (red)
Ethernet port		Green LED: on=100 Mb, off=10 Mb; Amber LED: on=link okay, flashes with activity
Network management & Control		SNMP v2, MX™, HTTP API, HTML (password protected)

Powering

Power consumption	<9W
Rack-mount units	MC10 and MC11 power supply cabinets
Stand-alone units (/SA)	11 to 19 VDC (PSA-12 DC/25 or PSR-12 DC)

Environmental

Operating temperature	+14°F to +140°F (-10°C to +60°C)
Relative humidity	<95% as long as there is no condensation.
MTBF	>200.000h
Safety & EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15

Mechanical

Dimensions (h x w x d)	5.04 x 1.34 x 7.5 in. (128 x 34 x 190 mm)
Weight (approx.)	15.80 oz. (450g)
Housing	Rack-mount or stand-alone (/SA)

¹ Indicated combinations are based on 100% DSP capacity