

Siqura S-60 E

Features

- Cost-effective H.264 video encoder
- Open Streaming Architecture
- Triple streaming support
- Simultaneous H.264, MPEG-4/MJPEG
- Duplex stereo audio
- Duplex serial data
- Video Motion Detection
- 3-level access control
- SNMP and network time (NTP) support
- Remotely upgradeable

Description

The unique Siqura® S-60 E H.264/MPEG-4 video server combines state-of-the-art H.264 video encoding with MPEG-4 or MJPEG. It's an open, cost-effective solution for IP video CCTV applications utilizing the full power of H.264, MPEG-4, and MJPEG. The S-60 E features crystal clear, and highly detailed H.264 and MPEG-4 streaming video, low-bandwidth, low latency, and interoperability with almost every other system. This versatile video IP server surpasses its competition on every terrain.

Open Streaming Architecture (OSA)

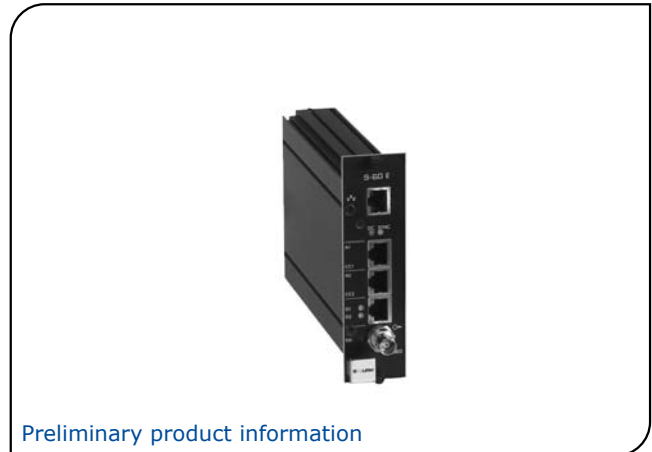
The S-60 E is designed to comply with the worldwide adopted standards for streaming video. Its OSA offers standardized streaming video and remote control. All streaming protocols are based on approved standards and tested with different vendors. A comprehensive HTTP API gives access to all controls and makes integration with a third-party VMS easy. The API is available at Optelecom-NKF.com. In addition, the S-60 E supports Siqura®'s unique MX™ protocol.

Triple Streaming per Channel

The versatile S-60 E encoder is capable of streaming H.264 and MPEG-4 and MJPEG simultaneously. Each stream is optimized for its purpose, e.g., high-quality H.264 for live viewing, low bandwidth MPEG-4 for storage, or easy to decode MJPEG for web applications or remote devices (e.g., PDAs). The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality.

Ordering information

Model	Description	Housing	Managed
Siqura S-60 E	H.264/MPEG-4/MJPEG video encoder w/audio, data, & CCs	Rack-mount	HTTP/SNMP/MX
Siqura S-60 E-SFP	H.264/MPEG-4/MJPEG video encoder w/audio, data, & CCs, empty 100MB SFP slot	Rack-mount	HTTP/SNMP/MX
Siqura S-60 E /SA	Stand-alone version of rack-mount models	Stand-alone	HTTP/SNMP/MX



Audio, Data, and I/O Contacts

Combining streaming video with duplex audio, serial data, and I/O contacts over IP, the S-60 E provides all the interfaces necessary for any CCTV application (CD-quality stereo audio, lip-sync audio, PTZ control, alarm contacts, access control, etc.). The balanced audio inputs/outputs are suitable for all industrial audio systems. Internal Video Motion Detection can be used for automated security solutions or event-triggered storage.

Fiber Option

The S-60 E is available with an optional pluggable SFP slot for connections via fiber optic cable (/SFP). A range of multimode or single-mode XNet™ SFP devices fit the empty SFP slot.

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-60 E is field-upgradeable.

IP Surveillance Solutions

S-60 E multi-codec 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.

Siquira S-60 E

Preliminary Technical Specifications

Video

Video channels	1x PAL/NTSC (Auto/PAL/NTSC)
Input level	1 Vpp (± 3 dB)
Compression algorithm	H.264 BP (ISO/IEC 14496-10) 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
Input impedance	75 Ω /Hi-Z selectable
Video Motion Detection	Yes (user-defined masking)
Encoding latency	<130 ms typ.
Resolution	D1, 1/2D1, 2CIF, CIF, QCIF, VGA
GOP structure	I, IP (selectable)
Frame rate	1 to 30 fps
Dual streaming	D1 @30 fps H264 + D1 @ 30fps MPEG-4 + MJPEG
Output data rate	up to 20 Mb/s (CBR or VBR selectable/ user profiles)
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 (MJPEG)	HTTP, FTP pull
Connector type	BNC 75 Ω (gold plated center pin)

Transmission interface

Number of interfaces	1
Interface 10/100Base-TX	Fast Ethernet Auto Negotiation, half-duplex/full-duplex, 10/100 Mb
SFP option	Empty SFP slot for 100 Mbps SFP device
Protocols	H.264 BP, 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

Powering

Power consumption	<5W
Rack-mount units	MC 10 and MC11 power supply cabinets
Stand-alone units (/SA)	11 to 19 VDC (PSA-12 DC/25 or PSR-12 DC)

Management

LED status indicators	
DC	Power-on indicator (green)
NV	No video on input (red)
SYNC	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)

Environmental

Operating temperature	+14° F to +140° F (-10 °C to +60 °C)
Relative humidity	<95% as long as there is no condensation.
MTBF	TBD
Safety & EMC	TBD

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)

Contact Closure

Number of channels	2x in, 2x out
Number of streams	2x 3 (multi- and/or unicast)
Output	Fail-safe, potential-free
Connector type	RJ45

Data

Number of channels	2 (full-duplex)
Number of streams	2x 3 (multi- and/or unicast)
Interfaces	1x RS232 1x RS422/485 (2- or 4-wire)
Stream	TCP/UDP/MX configurable
Data rate	300 b/s to 230.4 kb/s
Connector type	RJ45

Audio

Number of channels	2 (stereo, full-duplex)
Number of streams	3 (multi- and/or unicast)
Maximum bandwidth	20 Hz to 20 kHz
Sampling resolution	8/16-bits linear PCM or G.711
Input level	Adjustable, mic or line
Output level	Adjustable, 3 Vrms max.
Input impedance	>20 k Ω or 600 Ω bal.
Output impedance	<100 Ω bal.
Connector type	RJ45