SIQURA

C-60 E-MC

One-channel IP video encoder

DESCRIPTION

The Siqura C-60 E-MC multi-codec video server combines H.264, MPEG-4, and MJPEG video encoding. It's an open, cost-effective solution designed to operate under extreme conditions. The C-60 E-MC features robust, reliable, crystal clear, highly detailed, and low bandwidth video and is interoperable with most existing systems.

FEATURES

Supports H.264/MPEG-4/MJPEG encoding

Image quality monitor and tamper detector

Field hardened (NEMA TS-2)

Multi-steaming support

Duplex serial data and stereo audio

ONVIF Profile S

NTCIP protocol support

Description

Image quality monitor and tampering alarm

The C-60 E-MC is fitted with video analytics to check the health of connected cameras. This image quality monitor analyses contrast, exposure, sharpness and noise. Camera tampering analytics detect any changes in the camera's position or field of view. The instant a camera is subject to failure or tampering, an alert can be raised.

Enhanced video quality

Modern flat LCD monitors show artefacts with standard PAL or NTSC video. Standard deinterlacing loses half of the vertical resolution. Siqura's sophisticated deinterlacing scheme optimises vertical resolution resulting in superior video images without artefacts.

ONVIF and Siqura Programming Interface (SPI)

The C-60 E-MC 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.

Multi-streaming per channel

The C-60 E-MC encoder is capable of streaming H.264, MPEG-2, MPEG-4, and MJPEG simultaneously. Each stream is optimized for its purpose, e.g. high-quality H.264 or MPEG-2 live viewing, low bandwidth H.264 or MPEG-4 storage, and low resolution MJPEG for web applications or remote devices. The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality.

Audio, data, and I/O contacts

Combining streaming video with duplex audio, serial data, and I/O contacts over IP, the C-60 E-MC provides all the interfaces necessary for any CCTV application (CD-quality stereo audio, lip–sync audio, PTZ control, alarm contacts, access control, etc.). Internal video motion detection (VMD) can be used for automated security solutions or event-triggered storage.

Video

Number of channels	1x PAL/NTSC (Auto/PAL/NTSC)
Input level	1 Vpp (3 dB)
Compression algorithm(s)	H.264 BP (ISO/IEC 14496-10) MPEG-2 (ISO/IEC 13818-2), MJPEG, MPEG-4 (ISO/IEC 14496-2, ISMA cc
Types of streaming	UDP/IP (multicast and/or unicast) TCP/IP (RTP over RTSP)
Number of output streams	Up to 20
Input impedance	75 /Hi-Z selectable
Video motion detection	Yes (user-defined masking)
Encoding latency	20k or 600 balanced
Output impedance	100 balanced
Connector type	RJ-45

Data

Number of channels	2 full-duplex
Number of streams	2 x 3 (multicast and/or unicast)
Interface(s)	1x RS-232, 1x RS-422/485 (2- or 4-wire)
Types of streaming	TCP/UDP/MX configurable
Data rate	300 b/s to 230.4 kb/s
Connector type	RJ-45

Contact closures

Number of channels	2x in, 2x out
Number of streams	2 x 3 (multicast and/or unicast)
Output	Fail-safe, potential-free
Connector type	RJ-45

Transmission interface

Number of interfaces	1
Interface(s)	10/100Base-TX Fast Ethernet, auto-negotiation, half-duplex/full-duplex, 10/100 Mb
Protocols	H.264 BP, MPEG-4 ES, (M)JPEG, ONVIF
	RTP, RTCP, RTSP, TCP, UDP, IP, DHCP,(MPEG-2 TS, MPEG-2 ES)*
	IGMPv2, (S)NTP, MX/ IP, HTTP, SNMP v2, FTP, TelNet,DiffServ, SAP, UPnP, NTCIP
Connector type	RJ-45

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 and control	ONVIF, SNMP v2, SPI, HTML (password protected)

Powering

Power consumption	;5W

Specs

Powering

Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone units (/SA)	11 to 19 Vdc (PSA-UN12DC or PSR-12DC)

Environmental

Operating temperature	-40 °C to +74 °C (-40 °F to +165 °F)
Relative humidity	200,000 hours
Safety and EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, 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)
Housing	Rack-mount or stand-alone

Ordering information

C-60 E-MC	H.264/MPEG-2/-4/MJPEG video encoder with audio, data, and CCs
C-60 E-MC /SA	Stand-alone version of rack-mount model