Siqura C-44 E-MC

Features

- 4-channel MPEG-2/MPEG-4 video server
- Triple streaming support for each video input
- Simultaneous DVD-quality MPEG-2, MPEG-4 and MJPEG
- Compact design for high density video
- Duplex serial data
- Field-hardened (-40° to +74° C)
- Video motion detection
- Password-protected web interface
- SNMPv2 and NTP support
- Multicast and UDP unicast
- Remotely upgradeable

Description

The Siqura® C-44 E-MC 4-channel multi-codec video server is a very versatile and cost-effective, 4-channel solution for IP video security applications under outdoor conditions. Utilizing the full power of MPEG-2 and MPEG-4, the Siqura C-44 E-MC features low-latency, crystal clear and highly detailed MPEG-2 video, and low-bandwidth DVD-quality MPEG-4 video at full frame rate.

Triple Streaming per Channel

The cost-effective Siqura C-44 E-MC encoder dedicates one state-of-the-art video DSP per video input. Each DSP is capable of streaming MPEG-2, MPEG-4, and MJPEG simultaneously. Each stream is optimized for its purpose, e.g., high-quality MPEG-2 live viewing, low-bandwidth MPEG-4 storage, and low-resolution MJPEG for web applications or remote devices (e.g., PDAs).

Serial Data

Combining streaming video with full-duplex serial data over IP, the Siqura C-44 E-MC provides an interface for PTZ-control or access control. Each channel features an internal video motion detector, which can be used for automated security solutions or event-triggered storage.

Fiber Option

The Siqura C-44 E-MC is available with an optional pluggable SFP slot for connections via fiber optic cable (/SFP). A range of multimode or single-mode XSNet™ SFP devices fit the empty SFP slot.

Web Interface

Configuration, management, and live viewing are simplified by the password-controlled web interface. Full in-band control is available through the Siqura® Software Suite. The Siqura C-44 E-MC is field-upgradeable.
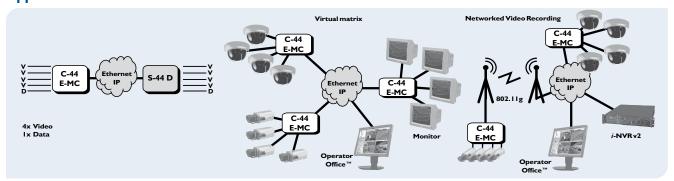
Siqura Surveillance Solutions

The Siqura C-44 E-MC is part of Siqura, a complete offering of 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 C-44 E-MC	4-channel multi-codec video server with duplex (PTZ) data, 10/100Mb	Rack-mount	SNMP/MX
Siqura C-44 E-MC-SFP	4-channel multi-codec video server, duplex data and empty 100Mb SFP slot	Rack-mount	SNMP/MX
Siqura C-44 E-MC /SA	Stand-alone version of rack-mount models	Stand-alone	SNMP/MX

Applications

Siqura C-44 E-MC

Technical Specifications

Video

Video channels	4x PAL/NTSC (autodetect)	
Input level	1 Vpp (±3 dB)	
Compression algorithm	MPEG-2 (ISO/IEC 13818-2) MPEG-4 SP Layer 5 (ISO/IEC 14496-2), MJPEG	
Number of streams per channel*	1x MPEG-2 (D1@25/30fps) + MPEG-4 (D1@25/30fps) + MJPEG (CIF@5fps)	
	1x MPEG-4 (D1@25/30fps) + MPEG-4 (2CIF@25/30fps) + MJPEG (CIF@5fps)	
Number of destinations	10 (multi- and/or unicast) per channel	
Input impedance	75Ω/Hi-Z selectable	
Encoding-decoding latency	<200 ms	
Resolution (HxV)	**PAL**	**NTSC**
D1	720x576	720x480
HD1	352x576	352x480
2CIF	720x288	720x240
CIF	352x288	352x240
QCIF	176x144	176x120
Frame rate	1 to 30 fps	
Data rate	9.6 kb/s to 14 Mb/s	
Video motion detection	Yes	
Connector type	4x BNC (75Ω)	

Data

Number of channels	1x TX, 4x RX
Number of TX destinations	3 (multi- and/or unicast)
Interface	RS422/485 (2- or 4-wire)
Format	Asynchronous, serial
Data rate	300 b/s to 115 kb/s
Latency	<5 ms
Connector type	5-pin screw terminal

Transmission interface

Number of interfaces	1x
Interface	
C-44 E-MC	10/100Base-TX Fast Ethernet (IEEE 802.3)
	Selectable: autonegotiation, half-duplex/full-duplex, 10/100 Mbps
C-44 E-MC-SFP	Optical interface slot for SFP devices
Protocols	MPEG-2 TS, MPEG-4 ES, JPEG, RTP, RTCP, TCP, UDP, IP, DHCP, IGMPv2, RTSP, (S)NTP, MX/IP, HTTP, SNMP v2, FTP
Connector	RJ45

Powering

Power consumption	<9 W

Management

LED status indicators	
DC	Power-on indicator
SYNC	All streams connected (green); failure in RX streams (amber); failure in TX streams (red)
NV	Video signal loss on input (red LED)
Ethernet port	Green LED: on=100 Mbps, off= 10 Mbps, Amber LED blinks with activity
Control	SNMP v2, MX™, HTTP (password protected), RTSP
On Screen Display (OSD)	Video overlay: any position, displaying time/date or ASCII string
MIB variables	Network settings and statistics, MPEG-4 settings (GOP), video settings, audio and data settings, stream control, PS voltages, module temperature, module status, configuration, etc.

Environmental

Operating temperature	-40° C to +74° C (-40° F to +165° F)
Relative humidity	<95% (no condensation)
MTBF	>200,000 h
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)	128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in.)
Weight (approx.)	450 g (1 lb.)
Housing	Rack-mount or stand-alone (/SA)

Indicated combinations at 100% DSP capacity, without video overlay (OSD)