VIDEOLOGY®
IMAGING SOLUTIONS INC.
Original Equipment Manufacturer

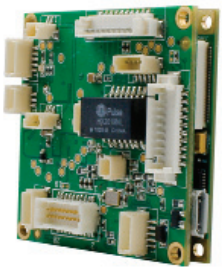
H.264 Network Video Server
with Digital 8-bit BT656 up to 1080p

i-NET STREAM

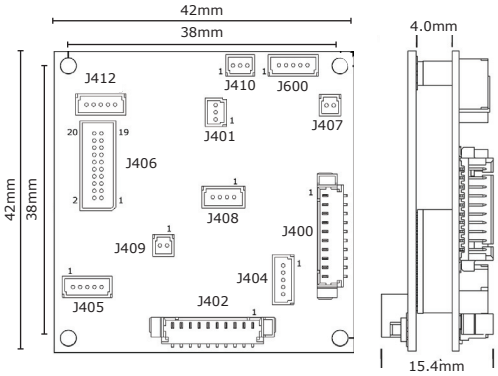
60SVM1 **Preliminary**

Smallest H.264 HD Dual Stream Encoder for OEMs

- 1 digital 8-bit 1080p and 1 analog asynchronous input stream to H.264/MJPEG encoding
- High definition (H.264/MJPEG) dual streaming video up to 60fps
- Ultra small 42mm x 42mm server board set
- Video motion detection
- Line in audio can be synchronized to video
- 32GB of SD recording (no frame loss) with overwrite option
- 10 second pre-alarm buffer
- 4 GPIOs
- GPS, LCD and other peripheral device interfaces (engineering evaluation boards available 60SVM1-E)
- SDK will be PSIA compatible



Server and I/O Board Dimensions



I/O Board Connectors & Optional Cables

Connectors	*Cable Part#*	*Description*
J400	60C1094	(10 pin) Ethernet
J401	60C1152	(03 pin) Audio in/out (RCA)
J402	60C1100	(10 pin) SD Card Interface
J404	60C1145	(05 pin) Debug RS-232 & user serial **(recommended)**
	60C1145-1	Optional cable for 60SVM1-E (requires SDK)
J405	60C1151	(05 Pin) SPI top JST to flying leads
J406	24C1.3XDIG-01	(30 pin) Videology digital camera with cable and interface board
J407	60C1158	(02 pin) 5VDC Power In
J408	60C1154	(04 pin) S-Video Y/C video IN
J409	N/A	(02 pin) Analog BNC video out (Future)
J410	60C1179	(03 pin) I²C Controller to flying leads
J412	60C1151	(05 pin) GPIO top JST to flying leads
J600	Production use only	(05 Pin) Micro Controller Programming

Note: Customers ordering the server with our digital cameras must order a kit which includes a digital camera interface board and cable.
Please contact a Videology sales representative for kit model options.

Video/Audio

		60SVM1
Output	Video Compression and Streams (Dependent on input)	H.264 Base, Main & High Profile/MJPEG Dual streaming (H.264/H.264, H.264/MJPEG, MJPEG/MJPEG)
	Frame Rate/ Resolutions *(Dependent on input)*	1080p@15fps 1080i@30fps 720p/D1/CIF & VGA up to 60fps
Input	Video	1 Digital 8-bit (BT656 or BT601) up to 1080p 1 Analog (Composite or YC) up to D1
	Video Bit Rates	Fixed/Variable
	Video Preprocessor	Motion adaptive de-interlacing/cropping and scaling/temporal and spatial filtering
	Audio Compression	AAC Encoding/G.711 (optional)
	Audio Bit Rates	Fixed/variable resolution from 8 to 32 bits, Line In @ 48KHz max
	Audio	1 Channels
	Power Voltage	5VDC (+/- 10%) @ 1A peak (can pass-through power up to .5A)
	Power Consumption	2 watts average (more if power is passed through)

Hardware

SDRAM	128 MB DDR2
Flash	500 MB Nand Flash
Clock	Non-volatile real time clock
Configuration	512 Kb EEPROM
GPIO Lines	4 inputs/outputs TTL (5V)
Serial Port	RS-232 (2 ports), 1 control and 1 user programmable, GPS interface
Storage	SD/SDHC/Micro SD Card Interface (32GB) option
Video Buffer	Up to 10 second pre-alarm buffer
Codec	Maxim MG3500
I²C	I²C control for Videology cameras (or pass through)
RS-232	Available for PTZ camera control (Pan Tilt Zoom)

Network

Network Interface	10/100 Base-T Ethernet
Network Protocol	TCP/IP, UDP, HTTP, FTP, SMTP, DHCP, NTP, RTSP
Multi-streaming	Yes
Multicast	Future

Software/GUI *See User Manual for Setup Details*

Viewer Requirements	OS: Windows 7, Vista, XP Browser: Internet Explorer 7.x +		
Media Players	VLC (version dependent 1.x), Quicktime Windows Media Player (version 11 or higher)		
Security	Password Protection, 3 levels of user privilege		
Web Server Access	1 Administrator and up to 100 simultaneous users		
Embedded OS	Linux		
Included Software	Web GUI	SFT-12004	Pre-loaded on 60SVM1
Optional SDK	PSIA SDK	SFT-12002-K	60SVM1-E

Mechanical & Environmental

Dimensions	42mm x 42mm x 15.4mm (1.65” x 1.65” x 0.60”)
Weight	<23g (0.81oz)
Operating Temp.	0°C - 65°C (32°F - 149°F)
Operating Humidity	10% - 99% non-condensing
Storage Temp.	-20°C - 75°C (-4°F - 167°F)
Storage Humidity	10% - 99% non-condensing
Standards	RoHS

Accessories

POE (AT)	72V0176-5	42mm x 42mm 5V out (third board)
SD Card	70M04GB	4GB sd card (minimum class 6 required)
	70M08GB	8GB sd card (minimum class 6 required)
60C1-U	I²C control kit for Videology HD cameras	

Ordering Information

60SVM1	Preloaded Web Viewer
60SVM1-E	Preloaded Web Viewer, SDK, engineering evaluation version

02/20/14 PDS-60SVM1 Rev E

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