

ATOMAS Mini YUV

OEM IP Video

Full HD 1080p60 H.264 IP Encoder Module

The ATOMAS Mini YUV encoder module is a feature-rich IP video encoder designed for a wide range of OEM camera designs. The unique compact form factor of the ATOMAS Mini YUV makes it especially well suited for integration to practically any parallel camera module.

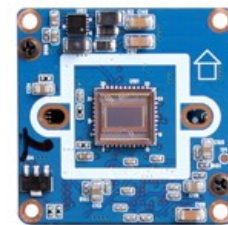


Features

- Compatible with most parallel camera modules
- High profile H.264 video compression
- IP video streaming at up to 1080p60
- Local recording to SD card
- Onvif Profile S compliant
- Web-based administrative user interface
- 7VDC to 12VDC power input range
- Optional microSD break-out module
- Low latency IP video streaming
- On-board RTC and hardware watchdog

Direct-Connect to Parallel Camera Modules

The ATOMAS Mini YUV is designed for connection to parallel camera modules and blocks, with a form factor allowing for easy integration into smaller camera designs. The video interface via parallel YUV provides a high level of digital video quality while maintaining ease of integration to your mechanical design.



High Performance Video Engine

The ATOMAS Mini YUV features a powerful video codec engine capable of generating multiple H.264 IP video streams at different quality settings. For instance, in dual streaming, it can generate a primary stream at full HD (1080p60) as well as a secondary stream at D1 30 FPS - and with a latency of less than 120ms.



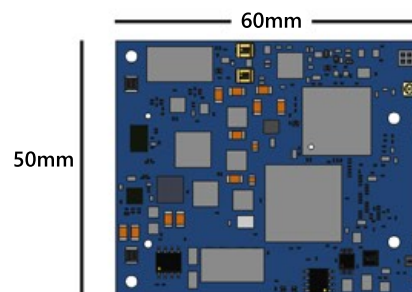
Full Embedded Software Stack

The ATOMAS Mini YUV comes with an extensive list of embedded software functions including: RTSP streaming, administrative web interface, Onvif Profile S, local recording, mobile viewer for smartphones and tablets.

Target Applications

- Video surveillance cameras
- Industrial image processing
- Handheld or mobile devices
- UAV / military applications

DIMENSIONS



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Standard / Integrated Interfaces

Network	1 x 10/100 Base-T Ethernet Optional WIFI support
Video Interface	45-pin FPC parallel video interface
Sensor Support	Sony FCB: MA130, MA132, MA133 * Please contact us for other compatible modules
Serial Port	1 x UART, RS-485/422 * Software accessible * Interface possible to PTZ controller
I/O & Audio	2 x Dry Input I/O, 1 x Dry Output I/O 1 x Board Reset Signal 1 x Dual Color Status LED Signal 1 x Mobile Host Storage Controller (SD/MMC) 1 x 2-ch Audio Line In / 2-ch Audio Line Out

Video Performance

Video Resolution	Supports sensor inputs at up to 12 megapixels
Video Compression	H.264/MPEG-4 AVC (up to high profile) MPEG4 Part 2 JPEG
Still Images	Still image capture at up to 12 megapixels
H.264 Performance	Total D1@390 fps or Full HD 1080p@65 fps Examples: 1 x 1080p60 fps + 1 x D1 @ 30 fps 2 x 1080p30 fps + 1 x D1 @ 30 fps
Video Latency	Can reach less than 120ms latency
Image Processing	2D/3D noise reduction Edge enhancement Frame difference motion detection Privacy masks

System

Operating System	Linux
HW Watchdog	Auto-boot, OS supervision, temperature monitoring, software monitoring
Other	Realtime Clock (RTC) Temperature Sensor Optional gyroscope/accelerometer/compass

Storage

Internal	1GB NAND Flash
External	External Storage via SD/MMC

Protocols

Networking	IPv4/v6, UDP, TCP, IGMP, ARP, DHCP, DNS, NTP
Streaming	RTSP, RTP, HTTP, Web Sockets
Management	HTTP, HTTPS, Bonjour, ONVIF, PSIA, ION API, SNMP, SMTP
Security	Basic / Digest Authentication, SSL

Software

Web GUI	System configuration and maintenance Live video and PTZ control Cross-browser support Smartphone and tablet support
Programming Interface	ION API, ONVIF Profile S
System Monitoring	Video signal, storage medium, temperature, memory, CPU, network
Media Recording	Recorded ASF audio/video to SD/MMC
Software Update	Fault-tolerant, remote accessible
Alarm Triggers	I/O input, motion detection, system monitor
PTZ Control	Full Pelco D implementation Can interface to PTZ controller (UART) Programmable preset tours User-defined custom commands
Other Features	Email notifications (on event or schedule) Text overlay OEM rebranding / customization

Mechanical / Environmental

Dimensions	50 mm x 60 mm
Power Input	7VDC to 12VDC
Operating Temp.	Dependent on customer mechanical design * All components are -40C to 85C (Tcase)
Warranty	2 Years Standard



IMAGING TECHNOLOGY

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