

IONODES ION-E100-MINI-SD

The perfect small form factor SD video encoding platform for OEM and technology partners.

Benefit from our many years of experience in video encoding technology to create the perfect product for your market.

Our ION-E100-MINI-SD encoder module can easily be tailored to fit your requirements. We can customize the form factor and the feature set, all while leveraging our proven firmware level software platform and API's.



Take advantage of what we do best

- High Performance H.264 Video Encoding
- Low Latency Performance
- Flexible Networking Options
- Small Form Factor Design
- Video Motion Detection and Image Deinterlacing
- Audio – Video Synchronization
- Administrative Interfaces (Web-based, Silverlight™)
- Standard Network API's (Bonjour, RTSP, OnVIF Profile S, Genetec API, HTTP ION API)
- Edge Recording Functionalities
- Hardware Redundancy
- Fanless and Industrial Grade Design
- HTML5 Live Viewer Application (video + PTZ)

Targeted applications

- Advanced SD PTZ Camera Systems
- Fixed SD Camera Systems
- Military and Law Enforcement Applications
- Thermal Camera Systems



Hardware Specifications

Standard / Integrated Interfaces

Video In	Composite video interface
Audio In	Single analog audio input
Audio Out	Single analog audio output
Network	Standard 10/100 Base-T Ethernet port
Alarm In	Two (2) digital input pins
Relay Out	Single (1) output relay
COM Port	Single (1) serial port (RS422/485)

Video Compression

Standards	H.264 High, Main and Baseline profiles Motion JPEG
Data Rate	64 kbps – 6 Mbps per channel (requires less than 1 Mbps @ 4CIF/30fps)
Resolutions	Up to D1
Delay	< 150 ms

Audio Compression

Standards	Uncompressed PCM High-fidelity AAC-LC G.711
-----------	---

Storage

Internal	One (1) micro-SD / SDHC / SDXC interface
----------	--

Protocols

Networking	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS
Streaming	RTSP, RTP, HTTP
Management	RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, FTP, SNMP
PTZ Integration	Pelco D, Custom Protocols (on demand)

General Features

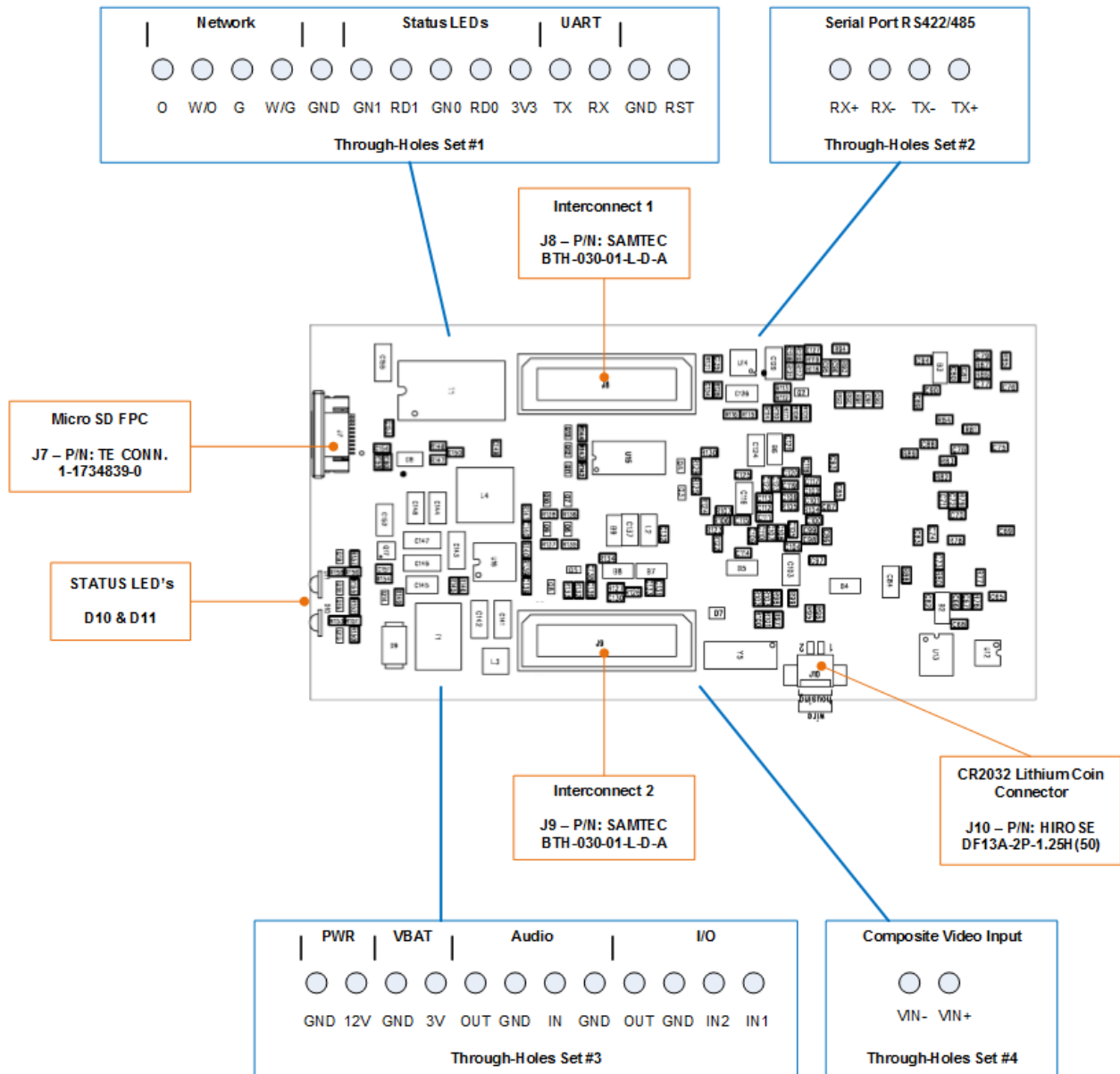
System Administration	Web GUI interface (HTTP or HTTPS)
Programming Interface	ION API, GENETEC API, OnVIF Profile S
System Monitoring	Video signal, storage subsystem, power supply, temperature, network monitor
Access Control	SSL, Basic and Digest Authentication
Audio/Video Buffering	Recorded ASF files to micro-SD medium
Long Term System Configuration Memory	System configuration stored on internal flash
Software Update	Fault-tolerant, remote accessible
Alarm Events	Triggered by external input or internal event monitoring
Video Player	Live video + PTZ control supported on most desktop and mobile browsers (IE, Firefox, Chrome, iOS, Android, etc.)

Mechanical / Environmental

Dimensions	3.40 in x 1.75 in x 0.30 in
Power	12 VDC (6-16 VDC) 3 to 4 Watts power consumption
Operating Temperature	0°C to 70°C
Approvals	FCC, CE



E100-MINI-SD Pinout Summary



Note: please refer to user manual for more details on connectivity.