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Nextiva

S1800e Single- and Dual-Port Encoders Featuring H.264 Technology



Nextiva® S1800e single- and dual-port encoders combine exceptional performance and an outstanding feature set with the low cost of ownership and operation associated with H.264 video compression technology.

These encoders are ideal for implementation in large, distributed networks, including point-to-point applications, where excellent video quality, a compact design, and storage and bandwidth optimization are key. The S1800e single- and dual-port encoders couple superior video resolution up to D1 with the dramatically lower bitrate of H.264 video compression, reducing bandwidth and storage utilization up to 50% over MPEG-4. With support for up to three H.264 video streams at D1/30fps, camera tampering detection and storage on the edge — a failover mechanism that ensures video is recorded in case connection with the management software is lost — these devices deliver the high reliability of Verint's third-generation encoders, plus IT-friendly features, easy implementation and maintenance, and an environmentally friendly design.

IT Friendly and Easy to Manage

You can manage the S1800e single- and dual-port encoders just as you would any other enterprise IT asset. SNMP facilitates integration with IT infrastructures, and an embedded Linux operating system provides superior security and reliability.

You can configure these encoders using Nextiva Control Center, Verint SConfigurator™ software, or a Verint Web browser interface that also provides live video viewing. And, like all Nextiva S1800e Series devices, these single- and dual-port encoders are fully integrated with Nextiva Video Management software — centralized device management, automated health monitoring, remote video viewing, and more — making it easier to view and manage large, geographically dispersed video operations and devices that are located in isolated or hard-to-reach locations.

Energy Efficient, with a Light Environmental Footprint

The compact, lightweight S1800e encoders have a 1U metal enclosure and are supplied with an external power supply for reduced energy consumption. These enterprise-class encoders are also certified compliant with RoHS, UL, CE, and other widely accepted safety and environmental standards and directives.

Advanced Video Technology with Lowest TCO

Verint® is at the forefront of networked video technology, with nearly two decades of experience delivering security intelligence solutions to government and industry worldwide. With the S1800e single- and dual-port encoders, Verint provides versatile edge devices built on the latest video technologies, integrated with the industry's broadest video portfolio, and designed for lowest cost of ownership and operation.

At A Glance:

- **Single- and dual-port video encoders with triple-stream H.264 video compression, resolution up to D1/30fps, and storage on the edge**
- **Ideal for one- and two-camera video surveillance applications that require excellent video quality, optimal bandwidth and storage utilization, and lower cost of operation**
- **Enables organizations to realize the benefits of IP video using their analog cameras**
- **Reliable and IT friendly, with SNMP, an embedded Linux operating system, and flexible configuration and maintenance**
- **Compatible with Nextiva Video Management software and a Verint web interface for configuration and live video viewing**
- **Energy efficient and environmentally friendly, with a small form factor**



VIDEO INTELLIGENCE SOLUTIONS™

Technical Specifications

Video	
• Input	1 composite, 1 Vpp into 75 ohms NTSC/PAL, BNC female
• Quadruple Streams	3 x H.264, 1 x MJPEG streams
• Performance	D1/30fps on all streams simultaneously for up to 10Mbps
• Compression	H.264 (MPEG-4 Part 10/AVC) Main Profile and MJPEG
• Resolution	Scalable from CIF (352x240 pixels for NTSC; 352x288 pixels for PAL) to D1 (720x480 pixels for NTSC; 720x576 pixels for PAL)
• Frame Rate	1-30fps NTSC, 1-25fps PAL programmable (full motion)
• Bandwidth	Each stream configurable from 30Kbps to 6Mbps
Network	
• Interface 1	RJ-45, Ethernet 10/100 Base-T
• Protocols	Transport: RTP/IP, UDP/IP, TCP/IP, or multicast IP Others: DNS, NTP, SNMP v1/v2c/v3 (MIB-II), HTTP, HTTPS, DHCP client and 802.1x
• Security	SSL-based authentication, password protected, HTTPS
Serial and USB Ports	
• Electrical Levels	Port 1: RS-232 (max. 230 kbps) pluggable clip-terminal strip or RS-422/485 2/4 wires (max. 230 kbps) pluggable clip-terminal strip
• Operating Mode	Transparent serial port supporting any asynchronous serial protocol
• Storage	SDHC MicroSD Card, up to 32 GB (SD card not included)
Alarm	
• Input	2 dry contacts
• Output	1 relay contact (48V AC/DC at 100 mA max.)
Audio	
• Bi-Directional	Input: -46 to -3 dBV into 30 Kohms (line or microphone input) Output: -46 to -3 dBV into 16 ohms min.
• Connectors	1/8 in. (3.5 mm) stereo jacks
Power	
• Supply Voltage	12V DC +/- 10%
• Power Supply	12V DC included with non-PoE models
• Power Consumption	Max. 5W
• Max. Output Power	5W (with PoE models only)
Physical	
• Enclosure	1U metal case with flange mount (black)
• Dimensions	4.2L x 3.5W x 1.7H in. (106L x 90W x 42H mm)
• Weight	9.2 oz. (260 g)
• Operating Temperature	32°F to 140°F (0°C to 60°C) [except PoE model: 32°F to 131°F (0°C to 55°C)]
• Humidity	95% non-condensing at 140°F (60°C)
• Firmware	Embedded Linux-based operating system
Management	
• Configuration and Firmware Upgrade	Supported through Nextiva Control Center (single device and batch mode firmware upgrade), SConfigurator, and Web browser interface (single device firmware upgrade)
Certification and Regulation	
• USA	RoHS compliant
• Canada	UL, FCC Part 15 (Subpart B, Class A)
• Europe	ICES03 class A CE marking (EN55022, EN55024)
Models	
• S1801e	1-Port video encoder featuring H.264 technology with 1 bi-directional audio channel and 12V DC universal power supply
• S1801e-PoE	With PoE support
• S1802e	With 2 video ports and 12V DC universal power supply
Optional Accessories	
• VRM8	19-inch rack mount panel for 8 units of the Nextiva S1800e series
• PSPOE	Power over Ethernet injector

About Verint Video Intelligence Solutions

Verint® Video Intelligence Solutions™ is a worldwide leader in networked video, a “single source” for virtually every facet of video surveillance operations: from cameras, encoders, and intelligent DVRs to video management, viewing, and analytics software.

Verint. Powering Actionable Intelligence.®

Verint® Systems Inc. is a global leader in Actionable Intelligence® solutions and value-added services. More than 10,000 organizations in over 150 countries use our work-force optimization and security intelligence solutions to improve enterprise performance and make the world a safer place. For more information, visit www.verint.com.



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