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

Verint® 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 Verint Control Center, Verint SConfigurator™ software, or a Verint Web browser interface that also provides live video viewing. And, like all Verint S1800e Series devices, these single- and dual-port encoders are fully integrated with Verint 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 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.

Key Benefits
- 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 Verint Video Management software and a Verint web interface for configuration and live video viewing
- Energy efficient and environmentally friendly, with a small form factor
# Technical Specifications

## Video
- **Input:** 1 composite, 1 Vpp into 75 ohms NTSC/PAL, BNC female
- **Quad 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, RTSP, 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:** 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:** 32ºF to 140ºF (0ºC to 60ºC) [except PoE model: 32ºF to 131ºF (0ºC to 55ºC)]
- **Humidity:** 95% non-condensing at 140ºF (60ºC)
- **Firmware:** Embedded Linux-based operating system

## Management
- **Configuration and Firmware Upgrade:** Supported through Verint Control Center (single device and batch mode firmware upgrade), SConfigurator, and Web browser interface (single device firmware upgrade)

## Certification and Regulation
- **USA:** RoHS compliant UL, FCC Part 15 (Subpart B, Class A)
- **Canada:** ICES03 class A
- **Europe:** 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 Verint S1800e series
- **PSPOE:** Power over Ethernet injector

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