

# Nextiva

## Nextiva S1800e Series Video Encoder Featuring H.264 Technology



### At A Glance:

- **Exceptional performance:** 8-port and 16-port video encoders with triple streaming H.264 and MPEG-4 video up to D1/30fps providing maximum video quality for minimum data transfer and storage
- **Comprehensive feature set:** storage on the edge, on-board analytics and motion detection, and camera tampering detection
- **Environmentally friendly design:** External power supply provides lowest power consumption
- **Integrated with Nextiva Video Management software and Nextiva EdgeVR IP-based network video recorder**
- **Reliable and IT friendly, with SNMP, an embedded Linux operating system, and flexible configuration and maintenance**

The Nextiva® S1800e Series from Verint® Video Intelligence Solutions™ is comprised of enterprise-class, H.264-enabled video encoders designed for large-scale, geographically distributed operations. These powerful video encoders offer a comprehensive feature set that includes full frame rate with high resolution video on all ports and external power supplies.

### Superior Performance with H.264 Technology

The Nextiva S1800e Series — which includes the S1808e and S1816e encoders — delivers high-resolution images for both recording and live video viewing. Both support H.264 and MPEG-4 video up to D1/30 frames per second on all 8 or 16 ports. By incorporating industry-leading H.264 video encoding technology, the S1800e Series offers excellent image clarity — while reducing use of network bandwidth and storage by up to 50 percent over MPEG-4 technology.

Able to simultaneously compress images at different rates and resolutions, the S1808e can support up to 8 analog video cameras, while the S1816e can support up to 16. Both feature storage on the edge — a failover mechanism that ensures video is recorded if connection with management software is lost — and camera tampering detection. On-board motion detection and analytics (license required) are also supported, allowing relevant data to be transmitted over the network while helping to improve system performance. Audio functionality is also offered optionally.

### Ideal for Large-Scale Video Operations; Enables Lower Cost of Ownership

Built on over a decade of video solution deployments, the Nextiva S1800e Series provides the reliability, scalability, and flexibility that large-scale operations require. They are designed to deliver the lowest total cost of ownership (TCO), including greater reliability, bit rate and storage consumption, ease of installation and maintenance, less power requirements and seamless integration with Nextiva Video Management software and Nextiva EdgeVR® IP-based network video recorder. The S1800e Series also features SNMP and dual LAN support for ease of integration with IT infrastructure and an intuitive Web browser interface with live viewing of video accessible through Nextiva. These solutions are built on an embedded Linux operating system to provide a scalable, open platform for superior security and reliability.

### Energy Efficient, Environmentally and User Friendly

Further, the Nextiva S1800e Series features an external power supply for a longer life span, making it the highly efficient, environmentally safe, and energy-saving choice. With a compact design, the video encoders are built for easy installation and operation in virtually any environment. RoHS compliant and certified for safety and EMI standards such as UL, FCC and CE, the Nextiva video encoders are environmentally friendly.



VIDEO INTELLIGENCE SOLUTIONS™

# Technical Specifications

	Nextiva S1808e	Nextiva S1816e
<b>Video</b>		
• <b>Input</b>	8 composites, 1 Vpp into 75 ohms NTSC/PAL, BNC female	16 composites, 1 Vpp into 75 ohms NTSC/PAL, BNC female
• <b>Triple Stream</b>	2 x H.264 and 1 x MPEG-4 streams	
• <b>Performance</b>	D1/30 fps, D1/15 fps, 2CIF/15 fps on all channels simultaneously	D1/30 fps, D1/15 fps, CIF/15 fps on all channels simultaneously
• <b>Compression</b>	H.264 Main Profile (MP) and MPEG-4 Simple Profile (SP)	
• <b>Resolution</b>	Scalable from CIF (352 x 240 pixels for NTSC; 352 x 288 pixels for PAL) to D1 format (720 x 480 pixels for NTSC; 720 x 576 pixels for PAL)	
• <b>Bandwidth</b>	Each stream configuration from 30Kbps to 6Mbps	
• <b>Maximum Latency</b>	115msec	
<b>Network</b>		
• <b>Interface 1</b>	RJ-45, Ethernet 10/100/1000 Base-T (for main connectivity)	
• <b>Interface 2</b>	RJ-45, Ethernet 10/100/1000 Base-T (for maintenance)	
• <b>Protocols</b>	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	
• <b>Security</b>	SSL-based authentication, password protected, HTTPS	
<b>Serial and USB Ports</b>		
• <b>Electrical</b>	Port 1: RS-232 (max. 230Kbps) pluggable screw-terminal strip Port 2: RS-422/485 2/4 wires (max. 230Kbps) pluggable screw-terminal strip	
• <b>Operating Mode</b>	Transparent serial port supporting any asynchronous serial protocol	
• <b>USB</b>	1 USB host port (USB drive not included)	
<b>Alarm</b>		
• <b>Inputs</b>	8 dry contacts	16 dry contacts
• <b>Outputs</b>	Output: 2 relay contacts (48V AC/DC at 500 mA max.)	Output: 4 relay contacts (48V AC/DC at 500 mA max.)
<b>Audio (optional)</b>		
• <b>Bi-directional audio</b>	3 dB frequency response (1 k $\Omega$ load) : 60 to 3600 Hz, (16 $\Omega$ load) : 350 to 3600 Hz Maximum input voltage (-12 dB input attenuation) : 1.4 Vrms Maximum output voltage/power (16 $\Omega$ load) : 800 mVrms / 40 mW Microphone BIAS voltage: 3V	
• <b>Connectors</b>	8 stereo jacks (1/8 in. (3.5 mm) )	16 stereo jacks (1/8 in. (3.5 mm) )
<b>Power</b>		
• <b>Input Voltage</b>	12V DC +/- 10%	12V DC +/- 10%
• <b>Power Consumption</b>	max. 20W (23W with audio model)	max. 25W (29W with audio model)
<b>Physical</b>		
• <b>Enclosure</b>	1U Metal case with flange mount (black)	
• <b>Dimensions</b>	17L x 6.6W x 1.7H in. (430L x 167.68W x 42.6H mm)	
• <b>Weight</b>	4.0 lb (1.8Kg)	
• <b>Operating Temperature</b>	32°F to 131°F (0°C to 55°C)	
• <b>Humidity</b>	95% non-condensing at 131°F (55°C)	
• <b>Firmware</b>	Embedded Linux-based operating system	
<b>Management</b>		
• <b>Configuration and Firmware Upgrade</b>	Supported through Nextiva Control Center (single device and batch mode firmware upgrade), SConfigurator and Web browser interface (single device firmware upgrade)	
<b>Certification and Regulation</b>		
• <b>USA</b>	RoHS compliant UL, FCC Part 15 (Subpart B, Class A)	
• <b>Canada</b>	ICES03 class A	
• <b>Europe</b>	CE marking (EN55022, EN55024)	
<b>Models</b>		
• <b>S1808e</b>	8-Port video encoder featuring H.264 technology	
• <b>S1808e-A</b>	8-Port video encoder featuring H.264 technology with 8 bi-directional audio ports	
• <b>S1816e</b>	16-Port video encoder featuring H.264 technology	
• <b>S1816e-A</b>	16-Port video encoder featuring H.264 technology with 16 bi-directional audio ports	
• <b>S1816e-SP</b>	16-Port video encoder, streamlined version, featuring H.264 technology	
<b>Optional Accessories</b>		
• <b>PS1261</b>	Power supply for S1800e Series	
• <b>PS1281</b>	19-inch rack mountable power supply for up to 10 S1800e series devices	
• <b>PS1282-10</b>	19-inch rack mountable power supply for up to 10 S1800e series devices	
• <b>PS1282-20</b>	19-inch rack mountable power supply for up to 20 S1800e series devices	
• <b>PDP10-2</b>	19-inch 1U power distribution panel rack mount to connect up to 10 S1800e Series devices	
<b>Warranty</b>	3-year limited warranty covering parts and labor (for the Americas). Contact your Verint representative for warranty details for other regions.	

## 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](http://www.verint.com).



[videoinfo@verint.com](mailto:videoinfo@verint.com)  
1-866-NEXTIVA

330 South Service Road  
Melville, NY 11747 USA

[www.verint.com/videosolutions](http://www.verint.com/videosolutions)

Unauthorized use, duplication, or modification of this document in whole or in part without the written consent of Verint Systems Inc. is strictly prohibited.

By providing this document, Verint Systems Inc. is not making any representations regarding the correctness or completeness of its contents and reserves the right to alter this document at any time without notice.

Features listed in this document are subject to change. Please contact Verint for current product features and specifications. All marks referenced herein with the © or TM symbol are registered trademarks or trademarks of Verint Systems Inc. or its subsidiaries. All rights reserved. All other marks are trademarks of their respective owners.

© 2010 Verint Systems Inc.  
All Rights Reserved Worldwide.

June 2011