

Nextiva

S4100 Wireless Transmitter and Receiver



At A Glance:

- Two units: encoder/transmitter and decoder/receiver
- Transmits over 2.4 or 5 GHz wireless band or 4.9 GHz US or Canada public safety band
- MPEG-4 based video up to 4CIF/30fps, with optimal band width utilization
- Compact, weatherproof enclosure: ideal for outdoor, point-to-point applications
- Built-in, multi-band antenna for software-based frequency change
- Eliminates the need to install separate encoders and wireless transmitters
- More than double the capacity of previous devices, with improved bandwidth utilization and image quality

The Nextiva S4100 captures and transmits images from virtually anywhere with high reliability, excellent scalability, and lower operational costs. The S4100 consists of two units - a wireless encoder/transmitter and a decoder/receiver - and features Verint's industry-leading video encoding technology for 4CIF/30fps video quality with optimal use of network bandwidth. When using the unique Verint SPCF protocol, the S4100 features effective throughput of up to 28Mbps, more than 2½ times the capacity of prior devices, for high efficiency and lower cost of ownership and operation.

The S4100 transmits video using the 2.4 GHz or 5 GHz (license-free) wireless band or the 4.9 GHz (licensed) US or Canada public safety band. A built-in, multi-band antenna lets users switch wireless frequencies by reconfiguring the software, rather than having to replace the unit. And Verint's proprietary SDCF polling resolves hidden node and quality of service issues characteristic of conventional Wi-Fi 802.11 products.

Ideal for Wireless Point-to-Point Applications

By eliminating the need to install separate video encoders and wireless video transmitters, the S4100 decreases installation, equipment, and maintenance costs, speeds deployment, and reduces power and space requirements. With compact, weatherproof enclosures, the S4100 is ideal for outdoor, wireless point-to-point applications.

Simplified, Flexible Configuration

Ethernet ports on the transmitter and receiver simplify configuration and maintenance and allow the S4100 to connect to an IP camera, chemical sensor, infrared wall, or other Ethernet device. The S4100 also features auto-sensing serial ports to connect to motorized domes, PTZ cameras, and other asynchronous serial devices, with an optional connection for a second analog camera. AES encryption with rotating 128-bit key provides a high level of security during wireless video transmission.

Manage with Nextiva

The Nextiva S4100 is fully integrated with the Nextiva video solution portfolio, including all Nextiva video management software. The S4100 can be centrally configured and administered using Nextiva Control Center, an easy-to-use management portal, and automatically monitored using Nextiva HealthCheck for greater uptime and lower service costs.

The S4100 is part of the Nextiva wireless video portfolio, which leads the industry in innovation and value. Built on accepted industry standards, these intelligent edge devices are designed for high availability, easy interoperability with IT infrastructure and video systems, and superior performance.



VIDEO INTELLIGENCE SOLUTIONS™

Technical Specifications

Network <ul style="list-style-type: none"> • RF Interface • Frequencies • Modulation • Maximum Output Power • Range (RF Line of Sight) • Data Rate (Max Burst Rate) • Channels • Encryption • Protocols • Antenna Connector • Ethernet Connector 	<p>Nextiva SDCF/SPCF</p> <p>802.11a/802.11g PHY with proprietary MAC protocol</p> <p>2.40-2.4835 GHz (ISM)</p> <p>4.940-4.990 GHz (Public safety band US and Canada)</p> <p>5.250-5.350 GHz (U-NII-2) Not available in US & Canada</p> <p>5.470-5.725 GHz (DFS) Not available in US & Canada</p> <p>5.725-5.825 GHz (U-NII-3/ISM)</p> <p>OFDM (Adaptive): BPSK, QPSK, 16QAM and 64QAM)</p> <p>2.4 GHz: 13 dBm 4.9 GHz: 20 dBm 5.x GHz: 23 dBm</p> <p>2.40-2.4835 GHz (8.5 dBi): up to 2.1 miles (3.4 km)</p> <p>4.940-4.990 GHz (12 dBi): up to 2.4 miles (3.9 km)</p> <p>4.940-4.990 GHz (18 dBi): up to 8.2 miles (13.2 km)</p> <p>5.250GHz-5.350GHz (12 dBi): up to 1.8 miles (2.9 km)</p> <p>5.470-5.725GHz (12 dBi): up to 1.7 miles (2.7 km)</p> <p>5.725-5.825 GHz (12 dBi): up to 2.1 miles (3.4 km)</p> <p>5.725-5.825 GHz (19 dBi): up to 8.8 miles (14.2 km)</p> <p>6, 9, 12, 18, 24, 36, 48, and 54 Mbps</p> <p>2.4 GHz: 11, 3 non-interfering</p> <p>4.9 GHz: 2, 4, or 10 depending on user-configurable channel width, non-interfering</p> <p>5.3 GHz: 4, non-interfering</p> <p>5.4 GHz: 11, non-interfering (DFS)</p> <p>5.8 GHz: 5, non-interfering</p> <p>128-bit AES with auto-key rotation</p> <p>RTP/IP, UDP/IP, TCP/IP</p> <p>SMA female</p> <p>Weatherproof 10/100Base-T (RJ-45)</p>
Video <ul style="list-style-type: none"> • Input/Output • Compression • Frame Rate 	<p>1 or 2 composite, 1 Vpp into 75 ohms (NTSC/PAL)</p> <p>Proprietary MPEG-4-based (480 TV lines resolution) MPEG-4 ISO 14496-2</p> <p>Simple Profile (480 TV lines resolution)</p> <p>1-30 fps programmable (up to 60 fields per second)</p>
Alarm & Audio <ul style="list-style-type: none"> • Alarm • Bi-Directional Audio 	<p>Input: 2 dry contacts (1 mA max.)</p> <p>Output: 1 relay contact (up to 48V at 100 mA)</p> <p>Input: 0 dBm into 600 ohms</p> <p>Output: -8 dBm into 600 ohms</p>
Internal Antenna Specifications <ul style="list-style-type: none"> • Frequency Supported • 3dB Horizontal Beamwidth • 3dB Vertical Beamwidth 	<p>2.4 GHz (8.5 dBi); 4.9–5.8 GHz (12 dBi)</p> <p>67°; 38°</p> <p>56°; 30°</p>
Serial Port <ul style="list-style-type: none"> • Interface Standard • Operating Mode 	<p>RS-422/485</p> <p>Transparent (supports any asynchronous PTZ serial protocol)</p>
Power <ul style="list-style-type: none"> • Input Voltage • Maximum Consumption 	<p>24V AC +/- 20% and 12V DC +/- 10%</p> <p>20W (1.6 A at 12V DC), 25 VA at 24V AC</p>
Physical <ul style="list-style-type: none"> • Enclosure • Size • Weight • Environmental • Humidity 	<p>NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets</p> <p>8.75L x 3.5W x 5.5H in. (222L x 89W x 140H mm)</p> <p>4.6 lbs (2.1 kg) including mounting brackets</p> <p>-22°F to 122°F (-30°C to 50°C)</p> <p>100% at 122°F (50°C)</p>
Management <ul style="list-style-type: none"> • Configuration • Firmware Upgrade 	<p>Local via the Ethernet port using SConfigurator</p> <p>Via the Ethernet port</p>
Models and Options <ul style="list-style-type: none"> • S4100 • S4100-2V • S4100-49 • S4100-2V-49 • S4100-CE • S4100-2V-CE 	<p>Standard model with 2.4/5.x GHz support and audio and alarms capability</p> <p>Standard model with 2.4/5.x GHz support and a second video input/output, no audio/alarm</p> <p>Public safety model with 2.4/4.9/5.x GHz support and audio and alarms capability</p> <p>Public safety model with 2.4/4.9/5.x GHz support and a second video input/output, no audio/alarm</p> <p>European model with 2.4/5.x GHz support and audio and alarms capability</p> <p>European model with 2.4/5.x GHz support and a second video input/output, no audio/alarm</p>
<p>All transmitters and receivers come with one cable for power/video/data, multi-band antenna, and wall-mount and pole-mount brackets. Optional audio and alarm cable can be ordered separately.</p>	
Certification and Regulation <p>For information, please visit www.verint.com/S4100</p>	
Warranty <p>2-year limited warranty covering parts and labor (for the Americas). Contact your Verint representative for warranty details for other regions.</p>	

About Verint Video Intelligence Solutions

Verint® Video Intelligence Solutions is the 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 workforce 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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