Nextiva
S4200 Wireless Encoder/Transmitter

The Nextiva S4200 wireless video encoder/transmitter captures images from virtually anywhere with high reliability, excellent imagery, and lower operational costs. The S4200 transmits video using the license-free 2.4 or 5 GHz wireless band or the licensed 4.9 GHz 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.

High-Quality Images with Lower Cost of Ownership

The S4200 is designed to deliver high-quality images with lower cost of ownership and operation. This wireless transmitter delivers dual-stream, MPEG-4 video up to 4CIF/30fps and incorporates Verint's industry-leading video encoding technology. The S4200 provides enhanced throughput of up to 28Mbps when using the Verint SPCF protocol, and up to 24 transmitters can be connected to a single access point.

Sophisticated, On-Board Video Analytics

Video analytics support is also available with the Nextiva S4200 wireless encoder/transmitter. The analytics-embedded S4200 makes analytics practical and cost-effective for any number of enterprise cameras. By enabling video to be analyzed at the point of capture, these on-board analytics can rapidly identify important activity with a high degree of accuracy and reduce video transport, storage, and equipment requirements. The Nextiva video analytics portfolio includes a broad array of automated video analysis applications for retail, finance, campus facilities, transportation, and critical infrastructure.

Reliable and Secure Wireless Video Transmission

SSL-based authentication helps secure configuration access, and AES encryption with rotating 128-bit key protects wireless transmissions from unauthorized interception. Verint's SPCF/SDCF polling protocol resolves hidden node and quality of service issues that often arise with conventional Wi-Fi 802.11 products. The S4200 supports two modes of operation: the Nextiva proprietary SPCF/SDCF protocol (optimized for video surveillance data); the standard 802.11a/g protocol and WPA2 personal and enterprise security standards, which allow interoperability with most commercial and mesh access points.

A Robust Point-to-Multipoint Wireless Solution

The Nextiva S4200 wireless video encoder/transmitter is housed in a compact, weatherproof enclosure, which makes it ideal for outdoor applications. When paired with the Nextiva S4300 access point, the S4200 provides a powerful point-to-multipoint solution.

An Ethernet port simplifies configuration and maintenance and allows the S4200 to connect to an IP camera, chemical sensor, infrared wall, or other Ethernet device. The S4200 also features auto-sensing serial ports for connecting to motorized domes, PTZ cameras, and other asynchronous serial device, with an optional connection for a second analog camera.

At A Glance:

- Wireless video encoder/transmitter in a single, compact, weatherproof enclosure

- Ideal for outdoor, point-to-multipoint applications when used with the Nextiva S4300 access point

- Connect up to 24 transmitters per access point, reducing equipment and installation costs

- 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

- Camera tampering detection and optional embedded video analytics

- More than double the capacity of previous devices, with improved bandwidth utilization and image quality

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Technical Specifications

Network
• RF Interface	Nextiva SPCF/SDCF 802.11a/802.11g PHY with proprietary MAC protocol mode OR 802.11a/802.11g with WPA2 standard compliant mode
• Frequencies	2.40-2.4835 GHz (ISM) 4.940-4.990 GHz (Public safety band US and Canada) 5.250-5.350 GHz (U-NII-2) Not available in US & Canada 5.470-5.725 GHz (DFS) Not available in US & Canada 5.725-5.825 GHz (U-NII-3/ISM)
• Modulation	OFDM (Adaptative: BPSK, QPSK, 16QAM and 64QAM)
• Maximum Output Power	2.4 GHz: 13 dBm 4.9 GHz: 20 dBm 5.x GHz: 23 dBm
• Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 2.1 miles (3.4 km) 4.940-4.990 GHz (12 dBi): up to 2.4 miles (3.9 km) 4.940-4.990 GHz (18 dBi): up to 8.2 miles (13.2 km) 5.250GHz-5.350GHz (12 dBi): up to 1.8 miles (2.9 km) 5.470-5.725GHz (12 dBi): up to 1.7 miles (2.7 km) 5.725-5.825 GHz (12 dBi): up to 2.1 miles (3.4 km) 5.725-5.825 GHz (19 dBi): up to 6.2 miles (10.0 km)
• Data Rate (Max Burst Rate)	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
• Channels	2.4 GHz: 11, 3 non-interfering 4.9 GHz: 2, 4, or 10 depending on user-configurable channel width, non-interfering 5.3 GHz: 4, non-interfering 5.4 GHz: 11, non-interfering (DFS) 5.8 GHz: 5, non-interfering
• Encryption	128-bit AES with auto-key rotation, WPA2, WEP
• Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client
• Antenna Connector	SMA female
• Ethernet Connector	Weatherproof 10/100Base-T (RJ-45)

Video
• Input	1 or 2 composite, 1 Vpp into 75 ohms (NTSC/PAL)
• Compression	Proprietary MPEG-4-based (480 TV lines resolution) MPEG-4 ISO 14496-2 Simple Profile (480 TV lines resolution), MJPEG
• Dual Stream	4CIF/15 fps and CIF/30 fps programmable 4CIF/30 fps and 4CIF/15 fps programmable (Analytics model)
• Frame Rate	1-30 fps programmable (up to 60 fields per second)

Alarm & Audio
• Alarm	Input: 2 dry contacts (1 mA max.) Output: 1 relay contact (up to 48V at 100 mA)
• Bi-Directional Audio	Input: 0 dBm into 600 ohms Output: -8 dBm into 600 ohms

Serial Port
• Interface Standard	RS-422/485
• Operating Mode	Transparent (supports any asynchronous PTZ serial protocol)

Power
• Input Voltage	24V AC +/- 20% and 12V DC +/- 10%
• Maximum Consumption	20W (1.6 A at 12V DC), 25 VA at 24V AC

Physical
• Enclosure	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets
• Size	8.75L x 3.5W x 5.5H in. (222L x 89W x 140H mm)
• Weight	4.6 lbs (2.1 kg) including mounting brackets
• Environmental	-22°F to 122°F (-30°C to 50°C)
• Humidity	100% at 122°F (50°C)

Management
• Configuration	Remote: via Nextiva, SConfigurator, Internet Explorer or Telnet Local: via the Ethernet port using SConfigurator or via Internet Explorer
• Firmware Upgrade	Via the Ethernet port of the network

Models
• S4200	Standard model with 2.4/5.x GHz support and audio and alarms capability
• S4200-2V	Standard model with 2.4/5.x GHz support and a second video input, no audio/alarm
• S4200-AS	Standard model with 2.4/5.x GHz support, on-board analytics, and audio and alarms capability
• S4200-AS-2V	Standard model with 2.4/5.x GHz support, on-board analytics, and a second video input, no audio/alarm
• S4200-49	Public safety model with 2.4/4.9/5.x GHz support and audio and alarms capability
• S4200-2V-49	Public safety model with 2.4/4.9/5.x GHz support and a second video input, no audio/alarm
• S4200-AS-49	Public safety model with 2.4/4.9/5.x GHz support, on-board analytics, and audio and alarms capability
• S4200-AS-2V-49	Public safety model with 2.4/4.9/5.x GHz support, on-board analytics, and a second video input, , no audio/alarm
• S4200-CE	European model with 2.4/5.x GHz support and audio and alarm capability
• S4200-2V-CE	European model with 2.4/5.x GHz support and a second video input, , no audio/alarm
• S4200-AS-CE	European model with 2.4/5.x GHz support, on-board analytics, and audio and alarm capability
• S4200-AS-2V-CE	European model with 2.4/5.x GHz support, on-board analytics, and a second video input, no audio/alarm

Note: 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.

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