

Nextiva

S4200

Video Encoder and Wireless Transmitter with On-Board Analytics

The Nextiva™ S4200 combines video encoding and wireless transmission in a single, compact device, enabling organisations to transmit images from virtually anywhere with high reliability, superior scalability, and lower operational costs.

The S4200 digitizes video from analog cameras and transmits it over the 2.4 GHz or 5 GHz license-free wireless band. When paired with the Nextiva S4300 access point, the S4200 provides a powerful point-to-multipoint wireless solution.

Performance, Manageability, Reliability

Available on-board analytics, including camera tampering detection, allow for high-quality image analysis and reduce network transport, storage, and server requirements.

Auto-sensing serial ports connect the S4200 to motorized domes, PTZ cameras, and other asynchronous serial devices. AES encryption with rotating 128-bit key enables a high level of security during wireless video transmission, and dual streaming allows video to be viewed at high resolution, but recorded at lower frame rates.

Two wireless modes of operation are supported:

- 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

Cost-Effective Deployment Virtually Anywhere

By eliminating the need to install separate encoders and wireless units, the S4200 reduces installation, equipment, and maintenance costs. The device supports two analog cameras, and a built-in multi-band antenna gives users the flexibility to switch wireless frequencies by reconfiguring the software, instead of replacing the antenna.

The S4200 is part of the Nextiva portfolio of intelligent wireless edge devices, which lead the industry in innovation and value.

Key Features

- Video encoding and wireless transmission in a single device
- Uses 2.4 GHz or 5 GHz license-free band
- Dual-stream, MPEG-4 video up to 4CIF/25 fps
- On-board analytics, including camera tampering detection
- Compact, weatherproof enclosure for outdoor use
- Automated configuration, health monitoring, and diagnostics with Nextiva



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
Frequency	2.40-2.4835 GHz (ISM) 5.250-5.350 GHz (U-NII-2) 5.470-5.725 GHz (DFS)
Modulation	OFDM
Max. Output Power	2.4 GHz: 13 dBm 5.x GHz: 23 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.9 miles (6.3 km)
Data Rate (Max Burst Rate)	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Channels	2.4 GHz: 11 5.3 GHz: 4, non-interfering 5.4 GHz: 11, non-interfering (DFS)
Encryption Protocols	128-bit AES with auto-key rotation, WPA2, WEP RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client
VIDEO	
Input	1 or 2 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Compression	Proprietary MPEG-4-based (480 lines resolution) MPEG-4 ISO 14496-2 Simple Profile (480 lines resolution), MJPEG
Frame Rate	1-25 fps programmable (up to 60 fields per second)
OPTIONAL ALARM AND 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
POWER	
Input Voltage	24V AC +/- 20% (optional 12V DC +/- 10%)
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	.222L x 89W x 140H mm 8.75L x 3.5W x 5.5H in
Weight	2.1 kg (4.6 lbs) including mounting brackets
Environmental	-30°C to 50°C (-22°F to 122°F)
Humidity	100% at 50°C (122°F)
MANAGEMENT	
Configuration	Remote: via Verint Nextiva, SConfigurator, Internet Explorer 5.0 or 6.0, or Telnet Local: via the Ethernet port using SConfigurator or via Internet Explorer 5.0 or 6.0
Firmware Upgrade	Via the Ethernet port of the network
CERTIFICATIONS	
Europe	ROHS Compliant CE marked ETSI EN 300 328 v1.7.1 (2006-10) ETSI EN 300 893 v1.3.1 (2005-08) ETSI EN 301 489-1 v1.7.1 (2007-04) ETSI EN 301 489-17 v1.3.2 (2007-06) UL Certified IEC-60950-1, First Edition UL60950-1, First Edition
Canada	Industry Canada RSS-210, RSS-139, and ICES-003
OPTIONS	second video input or audio and alarms Analytics support Standard model with 2.4/5.x A GHz support Public safety model with 2.4/4.9/5.x GHz support
WARRANTY	2-year limited warranty, covering parts and labour

Note: All transmitters come with one cable for video, data, and power, as well as wall-mount and pole-mount brackets.

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