

Nextiva

S4100

Video Encoder/Transmitter and Receiver for Point-to-Point Wireless Applications

The Nextiva™ S4100 is a point-to-point wireless solution that helps organizations transmit images from virtually *anywhere* with high reliability, superior scalability, and lower operational costs.

The S4100 consists of two units: a transmitter and receiver. The transmitter digitizes video from analog cameras and transmits it over the 2.4 GHz or 5 GHz license-free wireless band or the 4.9 GHz US public safety band. The receiver decodes the video, and the output can be linked to a CCTV system and viewed on analog monitors or connected to a video matrix or DVR.

Auto-sensing serial ports connect the S4100 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.

Cost-Effective Deployment Virtually *Anywhere*

By eliminating the need to install separate encoders and wireless units, the S4100 decreases installation, equipment, and maintenance costs, speeds deployment, and reduces power and space requirements. Each S4100 can support two analog cameras, and a built-in tri-band antenna gives users the flexibility to switch wireless frequencies by reconfiguring the software, instead of replacing the antenna. Ethernet connectors on the transmitter and receiver simplify configuration and maintenance.

The S4100 is part of the Nextiva portfolio of intelligent wireless edge devices, which lead the industry in innovation and value. Nextiva wireless solutions integrate radios, encoders, and antennae in small, NEMA-rated enclosures for secure, reliable operation in real-world video applications.

Key Features

- Video encoding and wireless transmission in a single device
- Uses 2.4 GHz or 5 GHz license-free band or 4.9 GHz US public safety band
- MPEG-4 based video up to 4CIF/30 fps
- AES encryption with rotating 128-bit key
- Compact, weatherproof enclosure for outdoor use
- Optional video connection to second analog camera



Technical Specifications

NETWORK	
RF Interface	Nextiva SDCF
Frequency	802.11a/802.11g PHY with proprietary MAC protocol 2.40-2.4835 GHz (ISM) 4.940-4.990 GHz (Public safety band) 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
Maximum Output Power	2.4 GHz: 23 dBm 4.9 GHz: 21 dBm 5.x GHz: 20 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.9 miles (6.3 km) 4.940-4.990 GHz (11.5 dBi): up to 2.1 miles (3.4 km) 4.940-4.990 GHz (18 dBi): up to 9.2 miles (14.8 km) 5.725-5.825 GHz (11 dBi): up to 1.6 miles (2.64 km) 5.725-5.825 GHz (18 dBi): up to 7.0 miles (11.3 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 Protocols	128-bit AES with auto-key rotation RTP/IP, UDP/IP, TCP/IP
VIDEO	
Input/Output	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	1-30 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
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%
Consumption	19.2W (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	Local via the Ethernet port using SConfigurator
Firmware Upgrade	Via the Ethernet port
CERTIFICATIONS	
USA	RoHS compliant FCC CFR47 Part 15 Subpart B, C, and E (15.247, 15.407, 15.107, 15.109) FCC Part 90 DSRC-C mask certification
Canada	Industry Canada RSS-210, RSS-139, and ICES-003
OPTIONS	
	A second video input/output or audio and alarms Standard model with 2.4/5.x GHz support Public safety model with 2.4/4.9/5.x GHz support
WARRANTY	
	2-year limited warranty, covering parts and labor

Verint. Powering Actionable Intelligence.®

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Since 1994, Verint has been committed to developing innovative solutions that help global organizations achieve their most important objectives. Today, organizations in over 100 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

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