

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 organisations 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 digitises video from analogue cameras and transmits it over the 2.4 GHz or 5 GHz license-free wireless band. The receiver decodes the video, and the output can be linked to a CCTV system and viewed on analogue monitors or connected to a video matrix or DVR.

Auto-sensing serial ports connect the S4100 to motorised 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 multi-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
- MPEG-4 based video up to 4CIF/25 fps
- AES encryption with rotating 128-bit key
- Compact, weatherproof enclosure for outdoor use
- Optional video connection to second analogue camera



Technical Specifications

NETWORK	
RF Interface	Nextiva SDCF
Frequency	802.11a/802.11g PHY with proprietary MAC protocol 2.40-2.4835 GHz (ISM) 5.250-5.350 GHz (U-NII-2) 5.470-5.725 GHz (DFS)
Modulation	OFDM
Maximum Output Power	2.4 GHz: 20 dBm 5.x GHz: 27 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.4 km 5.250-5.350 GHz (12 dBi): up to 2.9 km 5.470-5.725 GHz (12 dBi): up to 2.7 km
Data Rate (Max Burst Rate) Channels	6, 9, 12, 18, 24, 36, 48, and 54 Mbps 2.4 GHz: 11, 3 non-interfering 5.3 GHz: 4, non-interfering 5.4 GHz: 11, non-interfering (DFS)
Encryption Protocols	128-bit AES with auto-key rotation RTP/IP, UDP/IP, TCP/IP
VIDEO	
Input/Output Compression	1 or 2 composite, 1 Vpp into 75 ohms (NTSC/PAL) Proprietary MPEG-4-based (480 TV lines resolution) MPEG-4 ISO 14496-2 Simple Profile (480 TV lines resolution)
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
SERIAL PORT	
Interface Standard Operating Mode	RS-422/485 Transparent (supports any asynchronous PTZ serial protocol)
POWER	
Input Voltage Maximum Consumption	24V AC +/- 20% and 12V DC +/- 10% 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 Firmware Upgrade	Local via the Ethernet port using SConfigurator Via the Ethernet port
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
MODELS	
S4100	Outdoor Multi-band 2.4/5GHz system including transmitter/receiver with integrated antenna (12V DC/24V AC)
S4100-2V	Outdoor Multi-band 2.4/5GHz system including transmitter/receiver with two video inputs/outputs and with integrated antenna (12V DC/24V AC)
WARRANTY	
	2-year limited warranty, covering parts and labour

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

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