

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 licensefree 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

Nextiva SDCF 802.11c/R02.11g PHY with proprietary MAC protocol 2.40-2.4835 GHz [ISM] 5.250-5.350 GHz [U-NII-2] 5.470-5.725 GHz [UFS] 5.470	•	
B02.11a/802.11g PHY with proprietary MAC protocol 2.40-2.4835 GHz (ISM) 5.250-3.350 GHz (IV.NII:2) 5.470-5.725 GHz (IPS) OFDM	NETWORK	
Frequency	RF Interface	
S. 250-S. 350 GHz (U-NIL-2)	Fraguancy	
S. 470-S.725 GHz (DFS)	requency	· ·
Maximum Output Power Range (RF Line of Sight) S.x GHz: 27 dBm 5.x GHz: 28 dBi): up to 3.4 km 5.x GHz: 27 dBm 5.x GHz: 48 dBi): up to 2.9 km 5.x GHz: 27 dBm 5.x GHz: 48 dBi): up to 2.7 km 6.x GHz: 48 dBi; up to 2.7 km 6.x GHz: 41, 30 non-interfering 5.x GHz: 41, non-interfering 5.x GHz: 41, non-interfering 5.x GHz: 41, non-interfering 6.x GHz: 42, non-interfering 6.x GHz: 11, non-interfering 6.x GHz: 41, non-interfering 6.x GHz: 41, non-interfering 6.x GHz: 42, non-interfering 6.x GHz: 41, non-i		
S. G.		
Range (RF Line of Sight) 2.4.0-2.4835 GHz (12 dB); up to 2.9 km 5.470-5.725 GHz (12 dB); up to 2.9 km 5.470-5.725 GHz (12 dB); up to 2.7 km 6.79, 12, 18, 24, 36, 48, and 54 Mbps 2.4. GHzz 11, 3 non-interfering 5.3 GHz; 11, a non-interfering Fine cooks Encryption Protocols Encryption Input: 2 composite, 1 Vpp into 75 ohms (NTSC/PAL) Proprietary MPEG-4-bosed (480 TV lines resolution) MPEG-4 ISO 11496-2 Simple Profile (480 TV lines resolution) Protocols Encryption Protocols Encryption Input: 2 dry contacts (1 mA max.) Output: 1 relay contact (up to 48V at 100 mA) Input: 2 dry contacts (1 mA max.) Output: 8 dBm into 600 ohms Estrial PORT Interface Standard Operating Mode Estrial PORT Interface Standard Operating Mode POWER Input Voltage Maximum Consumption Extra 1 voltage Maximum Consumption Enclosure Enclosure NEMA 4X/IP 66 powder coat pointed die-cast aluminum with wall-mount brackets Size 222 L x 89W x 140H mm (8.75L x 3.5W x 5.5H in.) 2.1 kg (4.6 lbs) including mounting brackets 220 L x 89W x 140H mm (8.75L x 3.5W x 5.5H in.) 2.1 kg (4.6 lbs) including mounting brackets Environmental Humidity Local via the Ethernet port using SConfigurator Via the Ethernet port using SConfigurator Via the Ethernet port Entry Non 12 Representation University of the Ethernet port using SConfigurator Via the Ethernet port Entry Non 12 Representation University of the Ethernet port University of the Ethe	Maximum Output Power	
S.250.5.350 GHz (12 dBi): up to 2.9 km	Range (RE Line of Sight)	
Data Rate (Max Burst Rate) 5, 470-5,725 GHz (12 4Bit); up to 2.7 km 6, 9, 12, 18, 24, 36, 48, and 54 Mbps 2.4 GHz; 11, 3 non-interfering 5.3 GHz; 4, non-interfering 5.3 GHz; 11, 3 non-interfering 5.4 GHz; 11, non-interfering 5.4 GHz; 11, non-interfering 6.5 GHz; 128-bit AES with auto-key rotation RTPIP, UDPIP, TCPIP VIDEO Input/Output 1 or 2 composite, 1 Vpp into 75 ohms (NTSC/PAL) Proprietary MPEG-4-based (480 TV lines resolution) MPEG-4 ISO 1449-2. Simple Profile (480 TV lines resolution) MPEG-4 ISO 1449-2. Simple Profile (480 TV lines resolution) 1-25 fps programmable (up to 60 fields per second) OPTIONAL ALARM AND AUDIO Input: 2 dry contacts (1 mA max.) Output: 1 relay contact (up to 48V at 100 mA) Input: 2 dBm into 600 ohms Output: -8 dBm into 6	Range (RF Ellie of Signi)	
Channels 2.4 GHz: 11, 3 non-interfering 5.3 GHz: 4, non-interfering 5.3 GHz: 11, non-interfering 5.4 GHz: 11, non-interfering 5.5 GHz: 11, non-interfering 6.5 GHz: 12, Nop-interfering 6.5 G		5.470-5.725 GHz (12 dBi); up to 2.7 km
S.3 GHz. 4, non-interfering S.4 GHz. 11, non-interfering S.4 GHz. 11, non-interfering DFS 128-bit AES with auto-key rotation RTP/IP, UDP/IP, TCP/IP	`	
S.4 GHz: 11, non-interfering (DFS)	Channels	
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ISO 14496-2 Simple Profile (480 TV lines resolution) 1-25 fps programmable (up to 60 fields per second)		
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POWER Input Voltage Maximum Consumption 24V AC +/- 20% and 12V DC +/- 10% 20W (1.6 A at 12V DC), 25 VA at 24V AC		RS-422/485
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 222L x 89W x 140H mm (8.75L x 3.5W x 5.5H in.) 2.1 kg (4.6 lbs) including mounting brackets Environmental Humidity 100% at 50°C (-22°F to 122°F) MANAGEMENT Configuration Firmware Upgrade CERTIFICATIONS Europe ROHS Compliant CE marked ETSI EN 300 328 v1.7.1 (2006-10) ETSI EN 300 328 v1.7.1 (2005-08) ETSI EN 300 489-1 v1.7.1 (2007-04) ETSI EN 301 489-1 v1.7.1 (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) Outdoor Multi-band 2.4/5GHz system including transmitter/ receiver with two video inputs/outputs and with integrated antenna (12V DC/24V AC)	Operating Mode	Transparent (supports any asynchronous PTZ serial protocol)
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Firmware Upgrade 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) Outdoor Multi-band 2.4/5GHz system including transmitter/ receiver with two video inputs/outputs and with integrated antenna (12V DC/24V AC)	MANAGEMENT	
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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) Outdoor Multi-band 2.4/5GHz system including transmitter/ receiver with two video inputs/outputs and with integrated antenna (12V DC/24V AC)		POUS Canadinat
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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)	\$4100	
receiver with two video inputs/outputs and with integrated antenna (12V DC/24V AC)	S4100-2V	
······································		receiver with two video inputs/outputs and with integrated
WARRANTY 2-year limited warranty, covering parts and labour		
	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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