

Nextiva

S1100

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

The Nextiva™ S1100 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 S1100 consists of two units: a transmitter and a receiver. The transmitter digitises video from analogue cameras and transmits it over multiple license-free wireless bands. The receiver decodes and outputs video for viewing on analogue monitors. Auto-sensing serial ports connect the S1100 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

With state-of-the-art wireless technology and a compact, weatherproof enclosure, the S1100 can be cost-effectively deployed wherever it is needed – from parking lots and perimeters to city-wide implementations and waterways. By eliminating the need to install separate encoders and wireless units, the S1100 decreases installation, equipment, and maintenance costs, speeds deployment, and reduces power and space requirements.

Nextiva Wireless Solutions: Leading the Industry in Innovation and Value

The S1100 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. Built on accepted industry standards, these intelligent edge devices are designed for high availability, easy interoperability with IT infrastructure and video equipment, and superior performance.

Key Features

- Video encoding and wireless transmission over multiple license-free bands (2.4 and 5 GHz)
- MPEG-4 based video up to 2CIF, 25 FPS
- AES encryption
- Compact, weatherproof enclosure for outdoor use
- Auto-sensing serial ports for device connectivity



Technical Specifications

NETWORK	
RF Interface	Nextiva SPCF/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) 5.725-5.825 GHz (U-NII-3/ISM)
Modulation	OFDM
Output Power	17 dBm
System Gain	2.40-2.4835 GHz with 8.5 dBi gain antenna: 118 dB 2.40-2.4835 GHz with 16 dBi gain antenna: 133 dB 5.250-5.350 GHz with 13 dBi gain antenna: 132 dB 5.725-5.825 GHz with 13 dBi gain antenna: 129 dB 5.725-5.825 GHz with 18 dBi gain antenna: 139 dB
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 1.9 miles (3.1 km) 2.40-2.4835 GHz (16 dBi): up to 8.7 miles (14 km) 5.250-5.350 GHz (13 dBi): up to 4.4 miles (7.1 km) 5.725-5.825 GHz (13 dBi): up to 2.85 miles (4.6 km) 5.725-5.825 GHz (18 dBi): up to 7.15 miles (11.5 km)
Data Rate (Max Burst Rate)	6, 9, 12, 18, 24, 36, and 54 Mbps
Channel	2.4 GHz: 11, 3 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	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Compression	MPEG-4-based (480 lines resolution)
Frame Rate	1-25 FPS programmable (up to 60 fields per second)
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	
Electrical Levels	Autolevel sensing RS-232 or RS-422/485
Operating Mode	Transparent (supports any asynchronous PTZ serial protocol)
POWER	
Input Voltage	24V AC +/- 10% (optional 12V DC +/- 10%)
Consumption	12W (1.0 A at 12V DC) 28 VA at 24V AC
PHYSICAL	
Enclosure	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets
Size	230L x 100W x 96H mm (9.0L x 3.9W x 3.8H in.)
Weight	1.65 kg (3.6 lbs)
Environment	-30°C to 50°C (-22°F to 122°F)
Humidity	Humidity 100% at 50°C (122°F)
MANAGEMENT	
Configuration	Local via the serial port using any ASCII terminal, SConfigurator, or Config Assistant
Firmware Upgrade	Via the serial port
CERTIFICATIONS	
Europe	RoHS compliant CE marked EN 301 328-2 V1.2.1 (2001-12) EN 301 893 V1.2.3 (2003-08) EN 301 489-01 V1.4.1 (2002-08) EN 301 489-17 V1.2.1 (2002-08) EN 60950:2000
WARRANTY	
	2-year limited warranty, covering parts and labor

Note: All transmitters come with 9-pin cables for video, data, and power and wall-mount and pole-mount brackets. Cab 8p cable for audio sold separately.

Verint.

Powering Actionable Intelligence.®

Verint® Systems Inc. (NASDAQ: VRNT) is a leading global provider of analytic software-based solutions for security and business intelligence. Verint solutions help organisations make sense of the vast voice, video, and data available to them, transforming this information into *actionable intelligence* for better decisions and highly effective performance.

Since 1994, Verint has been committed to developing innovative solutions that help global organisations achieve their most important objectives. Today, organisations in over 50 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

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