

# Nextiva

## S1100w

### Video Encoder and Multi-Band Wireless Transmitter

The Nextiva™ S1100w 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 S1100w digitises video from analog cameras and transmits it over license-free, wireless bands. Auto-sensing serial ports connect the S1100w to motorised domes, PTZ cameras, and other asynchronous serial devices. SSL-based authentication and AES encryption with rotating 128-bit key enable a high level of security during wireless video transmission. And dual streaming allows video to be viewed at high resolution for superior clarity, yet recorded at lower frame rates to reduce data transport and storage requirements.

#### Cost-Effective Deployment Virtually Anywhere

When paired with the Nextiva S3100 wireless bridge, the S1100w provides a powerful point-to-multipoint wireless solution. With state-of-the-art wireless technology and a compact, weatherproof enclosure, the S1100w 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 S1100w 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 S1100w is part of the Nextiva portfolio of intelligent wireless edge devices. These devices integrate radios, encoders, and antennae in small, NEMA-rated enclosures for secure, reliable operation in real-world video applications. Built on accepted industry standards, Nextiva intelligent edge devices are designed for high availability, easy interoperability, and superior performance.

#### Key Features

- Video encoding and wireless transmission over license-free bands (2.4 and 5 GHz)
- Dual-stream, MPEG-4 based video up to 2CIF, 30 FPS
- SSL-based authentication and AES encryption
- Compact, weatherproof enclosure for outdoor use
- Auto-sensing serial ports for device connectivity
- Automated configuration, health monitoring, and diagnostics with Nextiva



## Technical Specifications

<b>NETWORK</b>	
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
Max. Output Power	2.40-2.4835 GHz: 19 dBm 5.x GHz: 17 dBm
System Gain	2.40-2.4835 GHz with 8.5 dBi gain antenna: 125 dB 2.40-2.4835 GHz with 16 dBi gain antenna: 139 dB 5.250-5.350 GHz with 13 dBi gain antenna: 130 dB 5.250-5.350 GHz with 18 dBi gain antenna: 134 dB 5.725-5.825 GHz with 13 dBi gain antenna: 131 dB 5.725-5.825 GHz with 18 dBi gain antenna: 140 dB
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.4 miles (5.4 km) 2.40-2.4835 GHz (16 dBi): up to 9.4 miles (15.2 km) 5.250-5.350 GHz (13 dBi): up to 2.8 miles (4.5 km) 5.250-5.350 GHz (18 dBi): up to 4.3 miles (7 km) 5.725-5.825 GHz (13 dBi): up to 2.8 miles (4.5 km) 5.725-5.825 GHz (18 dBi): up to 6.2 miles (10 km)
Data Rate (Max Burst Rate) Channel	6, 9, 12, 18, 24, 36, 48, and 54 Mbps 2.4 GHz: 11 5.3 GHz: 4 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, or multicast IP DNS and DHCP client
<b>VIDEO</b>	
Input	1 composite, 1 Vpp into 75 ohms (NTSC/PAL)
Compression	Proprietary MPEG-4-based (480 lines resolution) MPEG ISO 14496-2 Simple Profile (480 lines resolution)
Frame Rate	1-30 FPS programmable (up to 60 fields per second)
<b>ALARM AND AUDIO</b>	
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
<b>SERIAL PORT</b>	
Electrical Levels	Autolevel sensing RS-232 or RS-422/485
Operating Mode	Transparent (supports any asynchronous PTZ serial protocol)
<b>POWER</b>	
Input Voltage	24V AC +/- 10% (optional 12V DC +/- 10%)
Consumption	12W (1.0 A at 12V DC) 28 VA at 24V AC
<b>PHYSICAL</b>	
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	1.2 kg (2.6 lbs)
Environment	-30°C to 50°C (-22°F to 122°F)
Humidity	Humidity 100% at 50°C (122°F)
<b>MANAGEMENT</b>	
Configuration	Remote: via Verint Nextiva, nDVR™, Loronix Video Manager™, SConfigurator, or Telnet Local: via the serial port using any ASCII terminal
Firmware Upgrade	Flash memory for upgrade of video codec and application firmware over the network
<b>CERTIFICATIONS</b>	
USA	RoHS compliant FCC CFR47 part 15 (15.247, subparts B and E)
Canada	Industry Canada RSS-210, RSS-139, and ICES-003
<b>WARRANTY</b>	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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