

# Verint Nextiva S3100-CE

## MULTIBAND OUTDOOR WIRELESS BRIDGE



WIRELESS.  
DISTRIBUTED.  
NETWORKED.



Designed for the CCTV market  
License-free 2.4 and 5.4-5.7 GHz Bands

### Product Overview

The S3100-CE wireless video bridge wirelessly links the S1100w-CE wireless video transmitters, or S1500e series and S1600e video servers in remote locations, to an Ethernet Local Area Network (LAN). Several S3100-CE wireless bridges can be used to create multiple video links covering a large geographical area, such as a city. Configuration and management are made easy with the Verint Nextiva™, nDVR®, Loronix Video Manager™, or SConfigurator™ software.

Designed for the CCTV market, the S3100-CE wireless bridge leverages the Verint SPCF™ protocol, which resolves “hidden node,” quality of service, range, and security problems that are often present when using 802.11 wireless networking products.

Two or more units can be combined to form multibranch repeaters to circumvent natural or man-made obstacles. The S3100-CE is available with Power-over-Ethernet injection, simplifying installation by reducing the number of cables that need to be run. The S3100-CE is built on open standards to provide long-term investment protection.

- ✓ TPC and DFS support (5.4 GHz)
- ✓ Enables the deployment of CCTV or video monitoring systems throughout car parks, parks, ports, airports, railway facilities, multibuilding complexes, cities, streets, motorway junctions and other critical locations
- ✓ End-to-end secure wireless link using AES encryption with rotating 128-bit key
- ✓ Supports up to 16 high-quality video links at any given site; this number can grow with proper RF site planning
- ✓ Flexible wireless digital repeater functions for circumventing RF path obstructions or increasing system range and coverage with no degradation in video signal quality
- ✓ Supports remote configuration and firmware upgrade from any node on the network
- ✓ Resolves “hidden node,” quality of service, and security problems often present when using conventional 802.11 wireless networking products
- ✓ Access control via SSL-based authentication for secure unit and wireless network configuration and control

# Verint Nextiva S3100-CE

## MULTIBAND OUTDOOR WIRELESS BRIDGE

### NETWORK

RF Interface	Verint SDCF for backbone applications Verint SPCF for point-to-point applications
Frequency	2.412-2.472 GHz, 5.470-5.725 GHz (varies with country)
Modulation	OFDM
Output power	3-17 dBm (5 GHz), 11 dBm (2.4 GHz)
System gain	2.412-2.472 GHz with 8.5 dBi gain antenna: 112 dB 5.470-5.725 GHz with 13 dBi gain antenna: 131 dB 5.470-5.725 GHz with 18 dBi gain antenna: 140 dB
Range (2.4 Ghz) (RF line of sight)	2.412-2.472 GHz (8.5 dBi): up to 1.6 km (1 mile)  5.470-5.725 GHz (13 dBi): up to 6.1 km (3.8 miles) 5.470-5.725 GHz (18 dBi): up to 13.7 km (8.5 miles)
RF Data rate (max.burst rate)	6, 9, 12, 18, 24, and 36 Mbps
Channel (2.4 GHz)	3 non-interfering
Channel (5 GHz)	11 non-interfering (DFS) varies with country
Encryption	128-bit AES with automatic key rotation
Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client, HTTP 1.1 (Web server)
Security	SSL-based authentication
LED indicator	Status, wireless activity, LAN activity
Power connector	Weatherproof circular
Antenna connector	SMA female
Ethernet connector	Weatherproof 10/100Base-T (RJ-45)

### POWER

Input voltage	48V DC PoE or 24V AC +/-10% 50 Hz (for the repeater)
Consumption	12W (250 mA at 48V DC) 25 VA at 24V AC

### PHYSICAL

Enclosure	NEMA 4X / IP 66 powder coat painted die-cast aluminium with wall-mount brackets
Size	205L x 140W x 105H mm (8.1L x 5.5W x 4.1H in.)
Weight	0.90 kg (2.0 lb)
Environment	-30°C to 50°C (-22°F to 122°F)
Humidity	95% non condensing at 50°C (122°F)

### MANAGEMENT

Configuration	Remote: via Nextiva, nDVR, Loronix Video Manager, SConfigurator, or Telnet Local: via the serial port using any ASCII terminal
Firmware upgrade	Local or remote: via the serial port

### CERTIFICATION AND REGULATION

Europe	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 labour

### ORDERING

Part Number	S3100-CE
Description	Multiband outdoor wireless Ethernet bridge (48V DC input) with Power-over-Ethernet injector, 82-foot (25-metre) outdoor Ethernet cable, wall-mount and pole-mount brackets
Part Number	S3100-CE-RP (repeater application)
Description	Two 24V AC multiband outdoor wireless bridges with 3-foot (1-metre) outdoor Ethernet cable, wall-mount and pole-mount brackets

### OPTIONAL ANTENNAS

Part Number	ANT-WP8-24/S
Description	8.5 dBi gain, 2.4 GHz band, 65° beamwidth, patch antenna with 1-metre (3-foot) SMA-SMA cable
Part Number	ANT-WP16-24/S
Description	16 dBi gain, 2.4 GHz band, 27° beamwidth, patch antenna with 1-metre (3-foot) SMA-N cable
Part Number	ANT-WP13-5x/S
Description	13 dBi gain, 5.470–5.725 GHz band, 58° beamwidth, patch antenna with 1-metre (3-foot) SMA-N cable
Part Number	ANT-WS16-5x/S
Description	16 dBi gain, 5.470–5.725 GHz band, 90° beamwidth, sector panel antenna with 1-metre (3-foot) SMA-N cable
Part Number	ANT-WP18-5x/S
Description	18 dBi gain, 5.470–5.725 GHz band, 18° beamwidth, patch antenna with 1-metre (3-foot) SMA-N cable
Part Number	ANT-WP24-5x/S
Description	24 dBi gain, 5.470–5.725 GHz band, 9° beamwidth, patch antenna with 1-metre (3-foot) SMA-N cable

### OPTIONAL ACCESSORY

Part Number	ECAB-50
Description	50-metre (164-foot) outdoor Ethernet replacement cable

\* Product capabilities are enabled through software.

By providing this document, Verint Systems Inc. is not making any representations regarding the correctness or completeness of its contents and reserves the right to alter this document at any time without notice.

Verint, Actionable Intelligence, BehaviorTrack, Dellis, HealthCheck, Lanex, Loronix, Loronix Video Manager, MotionTrack, microDVR, nDVR, netDVR, Nextiva, Powering Actionable Intelligence, RP Security, Safe on the Move, SmartSight, Video Manager, and WebReview are trademarks of Verint Systems Inc., its subsidiaries or affiliates. All other registered trademarks, trademarks, and any associated logos are the properties of their respective owners.

© 2005 Verint Systems Inc. All rights reserved.

Call us at: **+44 (0) 1932 839 500**

Email: [marketing.emea@verint.com](mailto:marketing.emea@verint.com)

Or on the web at: [www.verint.com](http://www.verint.com)

Verint Systems, 241 Brooklands Road, Weybridge, Surrey KT13 ORH.

**VERINT**  
POWERING ACTIONABLE INTELLIGENCE®