

# Nextiva

## S4300-BR

### Outdoor Wireless Bridge

The Nextiva™ S4300-BR is a versatile outdoor wireless video solution composed of two S4300 units. It may be used as a wireless bridge to transfer video surveillance data between two LANs when a wired connection is not available or too costly to install.

The S4300-BR can be used to transmit images from video encoders that are connected to analog cameras or directly from an IP camera. The device can function as a wireless bridge in both point-to-point and point-to-multipoint configurations.

#### Performance and Reliability

Optimized for video transmission over the 2.4 GHz or 5 GHz license-free wireless band or 4.9 GHz US public safety band, the S4300-BR enables organizations to transmit images from virtually *anywhere* with high reliability. A proprietary Verint® polling protocol resolves Wi-Fi “hidden node” and quality of service problems when using conventional 802.11 products, with no degradation in video signal quality over extended range transmissions. SSL-based authentication helps secure configuration access, and AES encryption with rotating 128-bit key enables a high level of security during wireless video transmission.

#### Easy, Cost-Effective Deployment

A built-in tri-band antenna allows users to switch wireless frequencies just by reconfiguring the software. Nextiva Control Center, an easy-to-use management portal, simplifies installation. Nextiva HealthCheck™ continuously monitors the performance of the S4300-BR, with automated diagnostics and problem-solving assistance for greater uptime and lower service costs.

The S4300-BR is part of the Nextiva portfolio of wireless edge devices, which lead the industry in innovation and value. 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

- Wireless video transmission over 2.4 GHz or 5 GHz license-free band or 4.9 GHz US public safety band
- SSL-based authentication and AES encryption with rotating 128-bit key
- Compact, weatherproof enclosure
- Resolves hidden node and quality of service issues
- Automated configuration, health monitoring, and diagnostics with Nextiva



## Technical Specifications

<b>NETWORK</b>	
RF Interface	Nextiva SDCF for backbone applications Nextiva SPCF for point-to-multipoint applications
Frequency	802.11a/802.11g PHY with proprietary MAC protocol 2.40-2.4835 GHz (ISM) 4.940-4.990 GHz (Public safety band) 5.250-5.350 GHz (U-NII-2) Not available in US & Canada 5.470-5.725 GHz (DFS) Not available in US & Canada 5.725-5.825 GHz (U-NII-3/ISM)
Modulation	OFDM
Maximum Output Power	2.4 GHz: 23 dBm 4.9 GHz: 21 dBm 5.x GHz: 20 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.9 miles (6.3 km) 4.940-4.990 GHz (11.5 dBi): up to 2.1 miles (3.4 km) 4.940-4.990 GHz (18 dBi): up to 9.2 miles (14.8 km) 5.725-5.825 GHz (11 dBi): up to 1.6 miles (2.64 km) 5.725-5.825 GHz (18 dBi): up to 7.0 miles (11.3 km)
Data Rate (Max Burst Rate)	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Channels	2.4 GHz: 11, 3 non-interfering 4.9 GHz: 2, 4, or 10 depending on user-configurable channel width, 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, or multicast IP DNS and DHCP client
Security	SSL-based authentication
LED Indicator	Status, wireless activity, LAN activity
Antenna Connector	SMA female
Ethernet Connector	Weatherproof 10/100Base-T (RJ-45)
<b>POWER</b>	
Input Voltage	48V DC Power over Ethernet (PoE) 802.3af compliance Or 24V AC +/- 20% (optional 12V DC +/- 10%)
Consumption	9.6W (200 mA at 48V DC) Or 12W (1.0 A at 12V DC), 15 VA at 24V AC
Power Connector	Weatherproof circular
<b>PHYSICAL</b>	
Enclosure	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets
Size	8.75L x 3.5W x 5.5H in. (222L x 89W x 140H mm)
Weight	4.6 lbs (2.1 kg) including mounting brackets
Environmental	-22°F to 122°F (-30°C to 50°C)
Humidity	100% at 122°F (50°C)
<b>MANAGEMENT</b>	
Configuration	Remote: via Verint Nextiva, SConfigurator, Internet Explorer 5.0 or 6.0, or Telnet Local: via the Ethernet port using SConfigurator or via Internet Explorer 5.0 or 6.0 Via the Ethernet port of the network
Firmware Upgrade	
<b>CERTIFICATIONS</b>	
USA	RoHS compliant FCC CFR47 Part 15 Subpart B, C, and E (15.247, 15.407, 15.107, 15.109) FCC Part 90 DSRC-C mask certification
Canada	Industry Canada RSS-210, RSS-139, and ICES-003
<b>MODELS</b>	
S4300-BR-PoE	Outdoor 2.4/5.x GHz wireless bridge (48V DC input) comes with two Power over Ethernet injectors, two 25-meter outdoor Ethernet cables, wall-mount and pole-mount brackets, and tri-band antennas. Also available with 12VDC/24V AC power input.
S4300-BR-PoE-49 Public Safety	Outdoor 2.4/4.9/5.x GHz wireless bridge (48V DC input) with two Power over Ethernet injectors, two 25-meter outdoor Ethernet cables, wall-mount and pole-mount brackets, and tri-band antennas. Also available with 12V DC/24V AC power input.
<b>WARRANTY</b>	
	2-year limited warranty, covering parts and labor

## Verint. Powering Actionable Intelligence.®

Verint Systems Inc. is a leading global provider of analytic software-based solutions for enterprise optimization and security. Verint solutions help organizations 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 organizations achieve their most important objectives. Today, organizations in over 100 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

videosales@verint.com  
1-866-NEXTIVA  
www.verint.com/videosolutions  
330 South Service Road  
Melville, NY 11747 USA

September 2007  
VINED050907U

Unauthorized use, duplication, or modification of this document in whole or in part without the written consent of Verint Systems Inc. is strictly prohibited.

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.

All marks referenced herein with the ® or TM symbol are registered trademarks or trademarks of Verint Systems Inc. or its subsidiaries. All rights reserved. All other marks are trademarks of their respective owners.

© 2007 Verint Systems Inc. All rights reserved worldwide.