

Nextiva

S4300-BR Outdoor Wireless Bridge

At A Glance



Wireless bridge for transferring video between two LANs or transmitting video from IP cameras

Resolves “hidden node” and quality of service problems typical of conventional Wi-Fi 802.11 products

Built-in wireless site survey tools and Power over Ethernet for simplified installation and reduced cabling requirements

Ideal for outdoor, wireless point-to-point and point-to-multipoint applications, such as critical infrastructure and city surveillance deployments

Why Verint? The industry’s only wireless solutions with integrated radios, encoders, and antennae in compact, NEMA-rated enclosures for reduced deployment costs and reliable operation

The Nextiva® S4300-BR, consisting of two units, is a wireless bridge that may be used to transfer video surveillance data between two LANs when a wired connection is not available or too costly to install.

The S4300-BR can also be used to transmit images directly from IP cameras. The device can function as a wireless bridge in both point-to-point and point-to-multipoint applications.

Easy, Cost-Effective Deployment

Equipped with built-in wireless site survey tools to facilitate installation and ensure optimal configuration, the S4300-BR is available with Power over Ethernet (PoE) injection, which simplifies installation by reducing the number of cables needed for system connections. In addition, the S4300-BR supports remote configuration and firmware upgrade from any node on the network.

High Performance and Reliability

The S4300-BR enables organizations to transmit images from virtually *anywhere* with high reliability.

The S4300-BR uses the 2.4 GHz or 5 GHz license-free wireless band or the 4.9 GHz US public safety band, and comes with a built-in multi-band antenna that allows users to switch wireless frequencies just by reconfiguring the software, instead of replacing the entire unit.

The industry-leading Verint® SPCF/SDCF polling protocol resolves

Wi-Fi “hidden node” and quality of service problems characteristic of 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.

Nextiva Control Center, an easy-to-use management portal, simplifies installation and allows users to centrally administer and configure the S4300-BR. Nextiva HealthCheck™ continuously monitors S4300-BR performance, 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.

Technical Specifications

NETWORK	
RF Interface	Nextiva SDCF for backbone applications Nextiva SPDF 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: 13 dBm 4.9 GHz: 20 dBm 5.x GHz: 23 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 2.1 miles (3.4 km) 4.940-4.990 GHz (12 dBi): up to 2.4 miles (3.9 km) 4.940-4.990 GHz (18 dBi): up to 8.2 miles (13.2 km) 5.725-5.825 GHz (12 dBi): up to 2.1 miles (3.4 km) 5.725-5.825 GHz (19 dBi): up to 6.2 miles (10.0 km)
Data Rate (Max Burst Rate) Channels	6, 9, 12, 18, 24, 36, 48, and 54 Mbps 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)
POWER	
Input Voltage	48V DC Power over Ethernet (PoE) 802.3af compliance Or 24V AC +/- 20% and 12V DC +/- 10%
Maximum Consumption	PoE Class 3 (6.49 to 12.95W) Or 20W (1.6 A at 12V DC), 25 VA at 24V AC
Power Connector	Weatherproof circular
PHYSICAL	
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)
MANAGEMENT	
Configuration	Remote: via 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
Firmware Upgrade	Via the Ethernet port of the network
CERTIFICATIONS	
USA	RoHS compliant, UL certified FCC CFR47 Part 15 Subpart B, C, and E (15.247, 15.407, 15.107, 15.109) FCC Part 90 DSRC-C mask certification UL60950-1, First Edition
Canada	Industry Canada RSS-210, RSS-139, and ICES-003 CSA C22.2 NO. 60950-1, First Edition
MODELS	
S4300-BR-PoE	Outdoor 2.4/5.x GHz wireless bridge (48V DC input) with two PoE injectors, two 82-foot (25-meter) outdoor Ethernet cables, wall-mount and pole-mount brackets, and multi-band antennae. Also available with 12V DC/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 PoE injectors, two 82-foot (25-meter) outdoor Ethernet cables, wall-mount and pole-mount brackets, and multi-band antennae. Also available with 12V DC/24V AC power input
WARRANTY	2-year limited warranty covering parts and labor*

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