

Nextiva

S4300 Series

Outdoor Wireless Access Point, Bridge, and Repeater

The Nextiva™ S4300 Series is a versatile outdoor wireless video solution suite that includes an access point, bridge, and repeater.

The S4300 may be used as a wireless access point to aggregate traffic from multiple Nextiva S4200 wireless transmitters for point-to-multipoint deployments.

The S4300-BR can 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, composed of two S4300 units, can 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.

The S4300-RP (repeater), which is composed of two S4300 units, may be used as a range extender for wireless links; that is, when a device is needed to retransmit signals from Nextiva wireless devices to a wired LAN. The S4300-RP can function as a repeater in both point-to-point and point-to-multipoint configurations.

Performance and Reliability

Optimised for video transmission over the 2.4 GHz or 5 GHz license-free, wireless band, the S4300 Series enables organisations 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

S4300 devices are equipped with built-in wireless site survey tools to facilitate installation and configuration. A built-in, multi-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 devices, with automated diagnostics and problem-solving assistance for greater uptime and lower service costs.

The S4300 Series 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 license-free 2.4 or 5 GHz 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

NETWORK	
S4300 RF Interface	Nextiva SPCF for point-to-multipoint applications
S4300-BR & S4300-RP	Nextiva SDCF for backbone applications
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
Maximum Output Power	2.4 GHz: 20 dBm 5.x GHz: 27 dBm
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 6.3 km 5.250-5.350 GHz (12 dBi): up to 2.9 km 5.470-5.725 GHz (12 dBi): up to 2.7 km 5.725-5.825 GHz (12 dBi): up to 3.4 km 5.725-5.825 GHz (19 dBi): up to 10.0 km
Data Rate (Max Burst Rate)	6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Channels	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
Security	RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client
LED Indicator	SSL-based authentication
Antenna Connector	Status, wireless activity, LAN activity
Ethernet Connector	SMA female Weatherproof 10/100Base-T (RJ-45)
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POWER	
Input Voltage for S4300-PoE and S4300-BR-PoE	48V DC Power over Ethernet (PoE) 802.3af compliance
For S4300-BR & S4300-RP	24V AC +/- 20% or 12V DC +/- 10%
Maximum Consumption for S4300-PoE and S4300-BR-PoE	PoE Class 3 (6.49 to 12.95W)
For S4300-BR & S4300-RP	20W (1.6 A at 12V DC), 25 VA at 24V AC
Power Connector	Weatherproof circular
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PHYSICAL	
Enclosure	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets
Size	222L x 89W x 140H mm (8.75L x 3.5W x 5.5H in.)
Weight	2.1 kg (4.6 lbs) including mounting brackets
Environmental	-30°C to 50°C (-22°F to 122°F)
Humidity	100% at 50°C (122°F)
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MANAGEMENT	
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
Firmware Upgrade	Via the Ethernet port of the network
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CERTIFICATIONS	
Europe	ROHS Compliant CE marked ETSI EN 300 328 v1.7.1 (2006-10) ETSI EN 300 893 v1.3.1 (2005-08) ETSI EN 301 489-1 v1.7.1 (2007-04) ETSI EN 301 489-17 v1.3.2 (2007-06) IEC-60950-1, First Edition UL60950-1, First Edition
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MODELS	
S4300-PoE	Outdoor 2.4/5.x GHz wireless access point (48V DC input) with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, wall-mount and pole-mount brackets, and multi-band antenna
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 12V DC/24V AC power input (S4300-BR).
S4300-RP	Outdoor 2.4/5GHz wireless Ethernet repeater (12V DC/24V AC input) with 1 meter outdoor Ethernet cable, wall-mount and pole-mount brackets, and tri-band antennas
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WARRANTY	2-year limited warranty, covering parts and labour

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January 2008
VINED010108U

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