

Nextiva

S4300-RP

Outdoor Wireless Repeater

The Nextiva™ S4300-RP is a versatile outdoor wireless video solution composed of two S4300 units. The device may be used as a range extender for wireless links; that is, when a device is needed to retransmit signals from Nextiva wireless products to a wired LAN. This is especially useful in long-distance deployments or when transmitting around RF path obstructions.

The S4300-RP can function as a repeater in both point-to-point and point-to-multipoint configurations.

Reliability and Performance

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-RP 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

The S4300-RP is equipped with built-in wireless site survey tools to facilitate installation and ensure optimal configuration. 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-RP, with automated diagnostics and problem-solving assistance for greater uptime and lower service costs.

The S4300-RP 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

NETWORK	
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) 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	24V AC +/- 20% (optional 12V DC +/- 10%)
Consumption	12W (1.0 A at 12V DC), 15 VA at 24V AC
Power Connector	Weatherproof circular
PHYSICAL	
Enclosure Size	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mount brackets 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 Humidity	-22°F to 122°F (-30°C to 50°C) 100% at 122°F (50°C)
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
CERTIFICATIONS	
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
MODELS	
S4300-RP	Outdoor 2.4/5.x GHz wireless Ethernet repeater (12V DC/24V AC input) with 1 meter outdoor Ethernet cable, wall-mount and pole-mount brackets, and tri-band antennas
S4300-RP-49 Public Safety	Outdoor 2.4/4.9/5.x GHz wireless Ethernet repeater (12V DC/24V AC input) with 1 meter outdoor Ethernet cable, wall-mount and pole-mount brackets, and tri-band antennas
WARRANTY	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.

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