Nextiva

S4300 Wireless Access Point

The Nextiva S4300 access point aggregates traffic from Nextiva S4200 wireless video transmitters and is ideal for outdoor, point-to-multipoint applications. The S4300 transmits video over the license-free 2.4 or 5 GHz wireless band or the licensed 4.9 GHz US or Canada public safety band. A built-in, multi-band antenna lets users switch wireless frequencies by reconfiguring the software, rather than replacing the entire unit.

Built for Security and Performance

With Verint's state-of-the-art wireless technology and a compact, weatherproof enclosure, users can cost effectively deploy the S4300 wherever it is needed — from parking lots and perimeters to city-wide implementations and waterways.

The S4300 is built to deliver excellent performance. When using the unique Verint SPCF protocol, the S4300 features effective throughput of up to 28Mbps, more than 2½ times the capacity of prior devices. Additionally, up to 24 Nextiva S4200 wireless transmitters can be connected to a single S4300 access point.

The Verint SPCF/SDCF polling protocol resolves hidden node and quality of service issues that often arise with conventional Wi-Fi 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 protects wireless transmissions from unauthorized interception. Additionally, the Verint SPCF proprietary protocol makes it possible to configure the master S4300 to take over when a nearby S4300 fails. This failover mechanism increases system reliability and availability, reduces the opportunity for critical image loss, and provides an excellent alternative to mesh wireless networks.

Easy to Install, Configure, Update, and Manage

The Nextiva S4300 is equipped with built-in wireless site survey tools to facilitate installation and optimize configuration. A Power over Ethernet (PoE) injector reduces the number of cables needed for system connections, simplifying installation. Plus, users can remotely configure the S4300 and upgrade the firmware from any node on the network.

The Nextiva S4300 is fully integrated with the Nextiva video solution portfolio, including Nextiva Control Center, for centralized configuration and administration, and Nextiva HealthCheck, for automatic device health monitoring, diagnostics, and problem notification. Nextiva video management software helps increase system uptime and reduce cost of ownership, administration, and operation. Nextiva wireless video solutions lead the industry in innovation and value.

At A Glance:

- Transmits video from virtually anywhere using 2.4 or 5 GHz wireless band or 4.9 GHz US or Canada public safety band
- Compact, weatherproof enclosures that make them ideal for outdoor use
- Optional embedded video analytics for rapidly detecting important activity
- Up to 28 Mbps capacity, with superior image quality, optimized bandwidth utilization, and failover for high availability
- Connect up to 24 transmitters per access point, reducing equipment and installation costs
- Enhanced security via SSL-based authentication and AES with rotating 128-bit key

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VIDEO INTELLIGENCE SOLUTIONS™

Technical Specifications

Network
• RF Interface	Nextiva SPCF/SDCF 802.11a/802.11g PHY with proprietary MAC protocol
• Frequencies	2.40-2.4835 GHz (ISM)
	4.940-4.990 GHz (Public safety band US and Canada)
	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)
	5.250GHz-5.350GHz (12 dBi): up to 1.8 miles (2.9 km)
	5.470-5.725GHz (12 dBi): up to 1.7 miles (2.7 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)	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	128-bit AES with auto-key rotation
• Protocols	RTP/IP, UDP/IP, TCP/IP, or multicast IP
	DNS and DHCP client
• Security	SSL-based authentication
• Antenna Connector	SMA female
• Ethernet Connector	Weatherproof 10/100Base-T (RJ-45)

Internal Antenna Specifications
• Frequency Supported	2.4 GHz (8.5 dBi); 4.9–5.8 GHz (12 dBi)
• 3dB Horizontal Beamwidth	67°; 38°
• 3dB Vertical Beamwidth	56°; 30°

Serial Port
• Interface Standard	RS-422/485
• Operating Mode	Transparent (supports any asynchronous PTZ serial protocol)

Power
• Input Voltage	48V DC Power over Ethernet (PoE) 802.3af compliance
• Maximum Consumption	PoE Class 3 (6.49 to 12.95W)
• 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 Verint Nextiva, SConfigurator, Internet Explorer, Telnet
	Local: via Internet Explorer or the Ethernet port using SConfigurator
• Firmware Upgrade	Via the Ethernet port of the network

Models and Options
• S4300-PoE	Outdoor 2.4/5.x GHz wireless access point with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, multi-band antenna, and wall-mount and pole-mount brackets
• S4300-PoE-49	Public safety outdoor 2.4/4.9/5.x GHz wireless access point with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, multi-band antenna, and wall-mount and pole-mount brackets
• S4300-PoE-CE	European outdoor 2.4/5.x GHz wireless access point with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, multi-band antenna, and wall-mount and pole-mount brackets
• S4300-PoE-UK	United Kingdom outdoor 2.4/5.x GHz wireless access point with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, multi-band antenna, and wall-mount and pole-mount brackets

Additional contry-specific models available, contact your Verint representative for details.

Certification and Regulation
For information, please visit www.verint.com/S4300.

Warranty
2-year limited warranty covering parts and labor (for the Americas). Contact your Verint representative for warranty details for other regions.

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