

Nextiva

S3100

Multi-Band Outdoor Wireless Bridge/Access Point/Repeater

The Nextiva™ S3100 is a versatile outdoor wireless solution designed for a wide range of applications and operating environments:

Wireless Bridge: Two S3100 devices can be used to form a wireless bridge between two LANs when a wired connection is not available or too costly to install.

Wireless Access Point: The S3100 may be used as a wireless access point to aggregate traffic from multiple Nextiva S1100w wireless transmitters in point-to-multipoint applications.

Repeater: Two S3100 units 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.

Reliability, Manageability, Performance

Optimised for video transmission over license-free wireless bands, the S3100 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 and AES encryption with rotating 128-bit key enable a high level of security during wireless video transmission.

Nextiva Wireless Solutions: Leading the Industry in Innovation and Value

The S3100 is part of the Nextiva portfolio of intelligent 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

- Supports video transmission over license-free 2.4 and 5 GHz wireless bands
- Versatile solution for use as wireless access point, wireless bridge, or repeater
- SSL-based authentication and AES encryption
- Compact, weatherproof enclosure for outdoor use
- Auto-sensing serial ports for device connectivity
- 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-point 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
Output Power	17 dBm
System Gain	2.40-2.4835 GHz with 8.5 dBi gain antenna: 118 dB 2.40-2.4835 GHz with 16 dBi gain antenna: 133 dB 5.250-5.350 GHz with 13 dBi gain antenna: 132 dB 5.725-5.825 GHz with 13 dBi gain antenna: 129 dB 5.725-5.825 GHz with 18 dBi gain antenna: 139 dB
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 1.9 miles (3.1 km) 2.40-2.4835 GHz (16 dBi): up to 8.7 miles (14 km) 5.250-5.350 GHz (13 dBi): up to 4.4 miles (7.1 km) 5.725-5.825 GHz (13 dBi): up to 2.85 miles (4.6 km) 5.725-5.825 GHz (18 dBi): up to 7.15 miles (11.5 km)
Data Rate (Max Burst Rate) Channel	6, 9, 12, 18, 24, 36, 48, and 54 Mbps 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
Power Connector	Status, wireless activity, LAN activity
Antenna Connector	Weatherproof circular
Ethernet Connector	SMA female Weatherproof 10/100Base-T (RJ-45)
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POWER	
Input Voltage	48V DC Power-over-Ethernet (PoE) or 24V AC direct (for the repeater)
Compression	12W (250 mA at 48V DC) 25VA at 24V AC
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PHYSICAL	
Enclosure	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mounted brackets
Size	8.1L x 5.5W x 4.1H in. (250L x 140W x 105H mm)
Weight	2.0 lbs (0.90 kg)
Environmental	-22°F to 122°F (-30°C to 50°C)
Humidity	Humidity 100% at 122°F (50°C)
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MANAGEMENT	
Configuration	Remote: via Verint Nextiva, nDVR™, Loronix Video Manager™, SConfigurator, or Telnet Local: via the serial port using any ASCII terminal
Firmware Upgrade	Flash memory for upgrade over the network
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CERTIFICATIONS	
Europe	RoHS compliant CE marked EN 301 328-2 V1.2.1 (2001-12) EN 301 893 V1.2.3 (2003-08) EN 301 489-01 V1.4.1 (2002-08) EN 301 489-17 V1.2.1 (2002-08) EN 60950:2000
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MODELS	
S3100	Multi-band outdoor wireless Ethernet bridge (48V DC input) with PoE injector, 82-foot (25-meter) outdoor Ethernet cable, wall-mount and pole-mount brackets
S3100-RP (repeater application)	Two 24V AC multi-band outdoor wireless bridges with 3-foot (1-meter) outdoor Ethernet cable, wall-mount and pole-mount brackets
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WARRANTY	2-year limited warranty, covering parts and labor

Verint.

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Verint® Systems Inc. (NASDAQ: VRNT) is a leading global provider of analytic software-based solutions for security and business intelligence. Verint solutions help organisations 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 organisations achieve their most important objectives. Today, organisations in over 50 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

marketing.emea@verint.com
+44(0)1932 839500
www.verint.com/videosolutions
241 Brooklands Road, Weybridge,
Surrey, KT13 0RH, UK

November 2006

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