

# Nextiva

## S3100-RP

Outdoor Wireless Repeater

The Nextiva™ S3100 is a versatile outdoor wireless video solution designed for a wide range of applications and operating environments. The S3100-RP comprises two S3100 units and 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 S3100-RP can function as a repeater in both point-to-point and point-to-multipoint configurations.

### Cost-Effective Deployment Virtually Anywhere

With state-of-the-art wireless technology and a compact, weatherproof enclosure, the S3100-RP can be cost-effectively deployed wherever it is needed — from parking lots and perimeters to city-wide implementations and waterways.

The S3100-RP is equipped with built-in wireless site survey tools, facilitating installation and ensuring optimal configuration.

### Reliability, Manageability, Performance

Optimized for video transmission over license-free wireless bands, the S3100-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.

Nextiva Control Center, an easy-to-use management portal, simplifies installation. Nextiva HealthCheck™ continuously monitors the performance of the S3100-RP, with automated diagnostics and problem correction for greater uptime and lower service costs.

### Nextiva Wireless Solutions: Leading the Industry in Innovation and Value

The S3100-RP 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
- SSL-based authentication and AES encryption with rotating 128-bit key
- Compact, weatherproof enclosure for outdoor use
- Automated configuration, health monitoring, and diagnostics with Nextiva



## Technical Specifications

<b>NETWORK</b> RF Interface	Nextiva SDCF for backbone applications Nextiva SPCF for point-to-multipoint applications 802.11a/802.11g PHY with proprietary MAC protocol
Frequency	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	2.40-2.4835 GHz: 19 dBm 5.x GHz: 18 dBm
System Gain	2.40-2.4835 GHz with 8.5 dBi gain antenna: 126 dB 2.40-2.4835 GHz with 16 dBi gain antenna: 141 dB 5.250-5.350 GHz with 13 dBi gain antenna: 131 dB 5.250-5.350 GHz with 18 dBi gain antenna: 136 dB 5.725-5.825 GHz with 13 dBi gain antenna: 132 dB 5.725-5.825 GHz with 18 dBi gain antenna: 142 dB
Range (RF Line of Sight)	2.40-2.4835 GHz (8.5 dBi): up to 3.9 miles (6.3 km) 2.40-2.4835 GHz (16 dBi): up to 11.4 miles (18.3 km) 5.250-5.350 GHz (13 dBi): up to 3.2 miles (5.2 km) 5.250-5.350 GHz (18 dBi): up to 5.3 miles (8.5 km) 5.725-5.825 GHz (13 dBi): up to 3.3 miles (5.3 km) 5.725-5.825 GHz (18 dBi): up to 6.2 miles (10 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 Security LED Indicator Power Connector Antenna Connector Ethernet Connector	128-bit AES with auto key rotation RTP/IP, UDP/IP, TCP/IP, or multicast IP DNS and DHCP client SSL-based authentication Status, wireless activity, LAN activity Weatherproof circular SMA female Weatherproof 10/100Base-T (RJ-45)
<b>POWER</b> Input Voltage Consumption	24V AC direct 25VA at 24V AC
<b>PHYSICAL</b> Enclosure Size Weight Environmental Humidity	NEMA 4X/IP 66 powder coat painted die-cast aluminum with wall-mounted brackets 8.1L x 5.5W x 3H in. (250L x 140W x 80H mm) 2.0 lbs (0.90 kg) -22°F to 122°F (-30°C to 50°C) Humidity 100% at 122°F (50°C)
<b>MANAGEMENT</b> Configuration Firmware Upgrade	Remote: via Verint Nextiva, nDVR™, Loronix Video Manager™, SConfigurator, or Telnet Flash memory for upgrade over the network
<b>CERTIFICATIONS</b> USA Canada	RoHS compliant FCC CFR47 part 15 (15.247, subparts B, C, and E) Industry Canada RSS-210, RSS-139, and ICES-003
<b>MODELS</b> S3100-RP-24 S3100-RP-5x	Outdoor 2.4 GHz wireless repeater (24V AC input) with 3-foot (1-meter) outdoor Ethernet cable, wall-mount and pole-mount brackets (2 antennae not included) Outdoor 5.3/5.8 GHz wireless Ethernet repeater (24V AC input) with 3-foot (1-meter) outdoor Ethernet cable, wall-mount and pole-mount brackets (2 antennae not included)
<b>WARRANTY</b>	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 security and business intelligence. 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 50 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

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