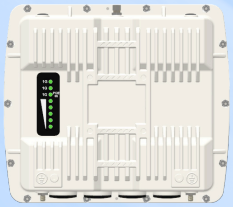
Stratum™ X3 - 5GHz



Product Snapshot

The Stratum X3 - 5GHz is a highly efficient and secure MIMO 2x2 outdoor wireless solution capable of throughput up to 1 Gbps.

Stratum X3 models are multi-purpose radios, designed to operate in each of the following modes:

- Point-to-Point endpoint
- Point-to-Multipoint CPE
- Point-to-Multipoint Base Station (2-64 client support requires a license upgrade)

Both connectorized and integrated antenna models are available and all models are housed in IP67-rated metal enclosures and operate from -40° to + 60°.

- Wide Band Radio - 5.150 – 5.850 GHz
- AES 128-bit encryption is upgradeable to 256-bit
- 20, 40 and 80 MHz channels
- Full tilt and swivel mounting kit included

Advanced Interference Management

To achieve peak performance in challenging RF environments characterized by dense unlicensed radio usage and significant interference, the Stratum X3 – 5GHz utilizes our highly efficient WORP® (Wireless Outdoor Router Protocol). Proxim ClearConnect®, a crucial component of WORP®, provides effective interference management.

Security

Over the air transmission is secured via 128-bit AES encryption, with an option to upgrade to 256-bit when ultra-high security is desired.

Rugged Reliability

Stratum X3 features a robust IP67-rated metal enclosure designed to provide dependable performance over many years, even in severe conditions including strong winds, high salt exposure, and extreme temperatures.

Proxim WORP®

WORP® is a dynamic, asynchronous protocol designed to optimize the performance of outdoor wireless point-to-point and point-to-multipoint wireless links. WORP's asynchronous nature allows the uplink and downlink to adapt to network traffic demands dynamically.

In a WORP® powered network, a base station autonomously handles on-demand bandwidth allocation and quality of service (QoS) settings based on the specific requirements of each client within the network.

Flexible and Secure Management Options

Management options include Proxim BlueConnect™; our Bluetooth-enabled mobile management application; TLS 1.3 web GUI, SSH 2.0 CLI, and SNMP v3 for ProximVision Advanced, and other network management solutions.

Antenna Options

The SX3-1021A includes an integrated dual polarity 22dBi 10° panel antenna, with the added flexibility of software selectable connectors for external antennas.

Model SX3-1020A is a connectorized unit purpose built for external dual polarity antennas where specific antenna patterns or gain adjustments are needed.

The SX3-1029B is point to multipoint base station with an integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna.

Ethernet and PoE

The Stratum X3 has three 1G Ethernet Ports to allow connection to multiple devices such as cameras.

- 1 x 1 Gbps port with PoE in (PD)
- 1 x 1 Gbps port with PoE out (PSE)
- 1 x 1 Gbps port.

Learn More about
Proxim WORP®

Learn More about
Proxim ClearConnect™

Specifications

PRODUCT MODELS

SX3-1021A-WD	Stratum X3, 5 GHz All-purpose unit (BSU single or SU), 1 Gbps, 10° dual pol antenna or RP-SMA - WD PoE	PN: 906-00014
SX3-1020A-WD	Stratum X3, 5 GHz All-purpose unit (BSU single or SU), 1 Gbps, RP-SMA - WD PoE	PN: 906-00020
SX3-1029B-WD	Stratum X3, 5 GHz Base Station with 64 client license, 1 Gbps, 90° dual pol sector - WD PoE	PN: 906-00032

LICENSES

SX3-102xA-AES256-UPG	Stratum X3, 5 GHz unit AES 256 license upgrade	PN: 997-00067
SX3-102xA-64SU-UPG	Stratum X3, 5 GHz All-purpose unit, support for 1 to 64 SU license upgrade	PN: 997-00073

INTERFACES

WIRED ETHERNET	One auto MDI-X RJ45 1 Gbps Ethernet with PoE in One auto MDI-X RJ45 1 Gbps Ethernet with PoE out One auto MDI-X RJ45 1 Gbps Ethernet
WIRELESS PROTOCOL	WORP® (Wireless Outdoor Router Protocol)

RADIO & TX SPECS

MIMO	2x2:2
MODULATION	OFDM BPSK-QAM1024
FREQUENCY	5.150 - 5.850 GHz (Subject to Country Regulations)
CHANNEL SIZE	20, 40 and 80 MHz (160 MHz via future upgrade)
TX POWER	Up to 27 dBm (dual chain)
TX POWER CONTROL	0 - 24 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

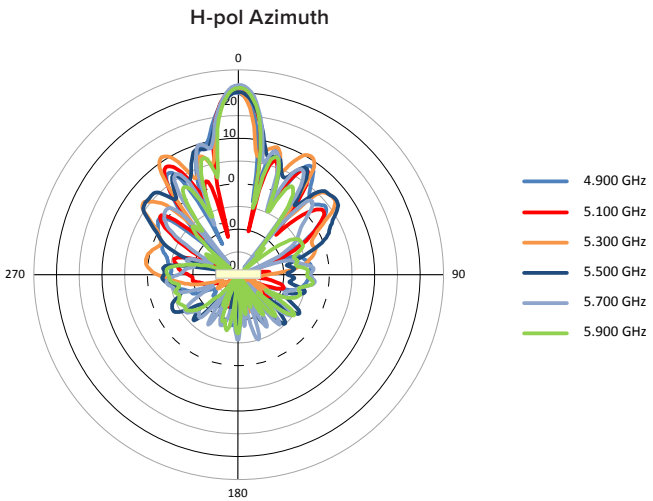
	20 MHz	40 MHz	80 MHz
TX POWER	MCS0:	MCS0:	MCS0:
2 RF	27	27	27
	MCS11:	MCS11:	MCS11:
2 RF	18	18	18
RX SENSITIVITY (Per=10-6)	MCS0:	MCS0:	MCS0:
	-92	-90	-86
	MCS11:	MCS11:	MCS11:
	-61	-59	-55
Throughput - Dual Stream	223 Mbps	435 Mbps	755 Mbps
OTHER	Dynamic Channel Selection (DCS) based on interference detection		
	Dynamic Frequency Selection (DFS) based on radar signature		
	Automatic Transmit Power Control (ATPC) with EIRP limit support		

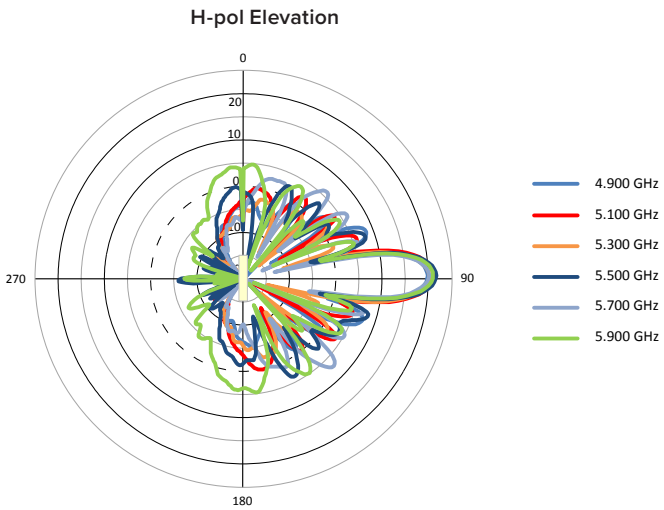
ANTENNA

SX3-1020A	Two RP-SMA Connectors
SX3-1021A	Integrated 2x2 MIMO 22 dBi dual Polarized 10 degree Panel Antenna plus two RP-SMA Connectors (Software switch between integrated antenna and connectors)
SX3-1029B	Integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna

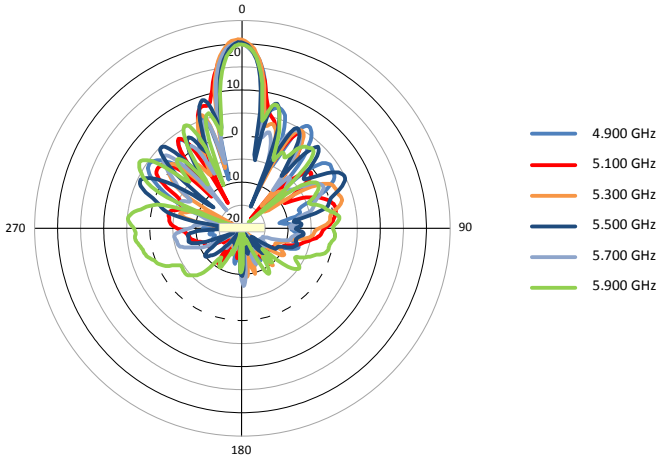
ANTENNA PATTERNS

SX3-1021A

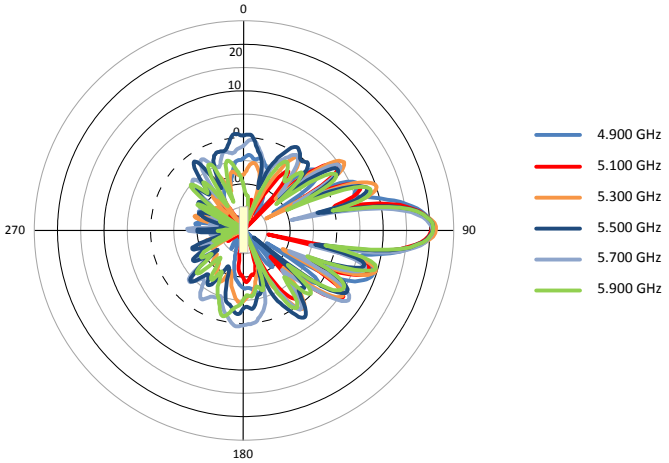




V-pol Azimuth



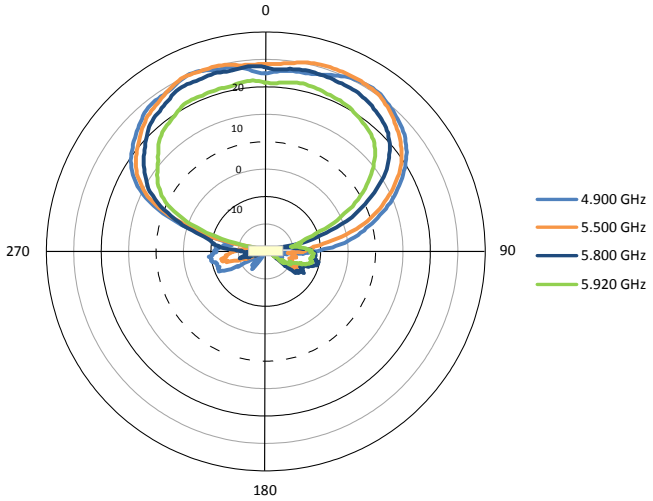
V-pol Elevation



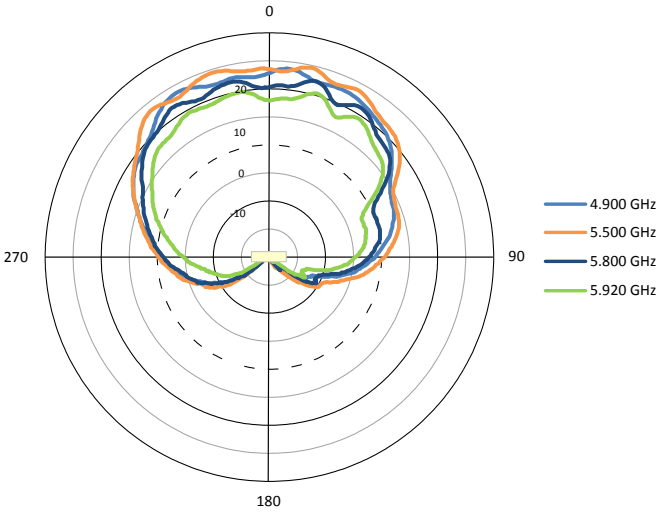
ANTENNA PATTERNS

SX3-1029B

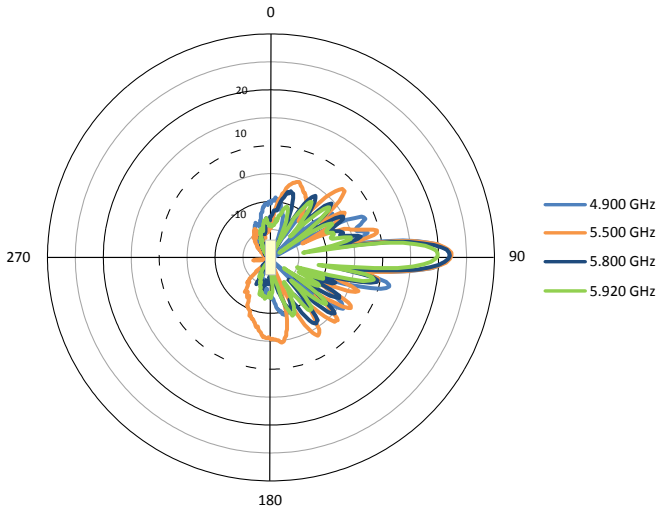
H-pol Azimuth



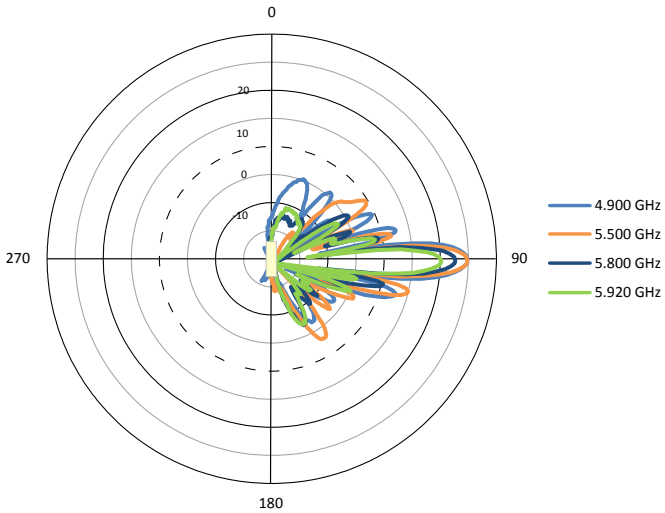
V-pol Azimuth



H-pol Elevation



V-pol Elevation



MANAGEMENT

BLUETOOTH LOW ENERGY	Proxim BlueConnect™
REMOTE	Telnet and SSH 2.0, Web GUI and TLS 1.3, TFTP, SNMP v1/v2c/v3
OTHER	Syslog, SNTP and local time, Spectrum analyzer
MULTI-LANGUAGE SUPPORT	Web Interface available in English, French, Spanish and Chinese

SECURITY

ENCRYPTION	AES 128 (AES 256 via license upgrade)
AUTHENTICATION	Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)

QoS (via future FW upgrade)

ASYMMETRIC BANDWIDTH CONTROL	Asymmetric UL/DL committed and maximum information rate per service flow
PACKET CLASSIFICATION CAPABILITIES	802.1p priority and IPTOS
SCHEDULING	Best Effort, Real Time Polling Services

NETWORK

MODES	Bridging, Routing
IP STACK	IPv4 and IPv6 simultaneously
VLAN	802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging
GATEWAY FEATURES	DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS

POWER

802.3at compliant

POWER CONSUMPTION

14 to 17 W max in MIMO 2x2 mode

ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING
	-40° to 60°C	-50° to 70°C	100% relative humidity	180 km/h (112.5 mph)
	-40° to 140° Fahrenheit	-58° to 158° Fahrenheit	IP67	
PHYSICAL SPECS	DIMENSIONS (Shipping Carton - 2 Units)	DIMENSIONS UNPACKAGED	WEIGHT (Shipping Carton - 2 Units)	WEIGHT (UNPACKAGED)
SX3-1020A	388 x 346 x 428 mm 15.27 x 13.62 x 16.85 in	250 x 220 x 62 mm 9.84 x 8.66 x 2.44 in	10.0 Kg 22.04 lbs	1.6 Kg 3.53 lbs
SX3-1021A	388 x 346 x 428 mm 15.27 x 13.62 x 16.85 in	305 x 305 x 77 mm 12 x 12 x 3.03 in.	12.2 Kg 26.90 lbs	2.2 kg 4.85 lbs
SX3-1029B	415 x 415 x 485 mm 16.34 x 16.34 x 16.85 in	371 x 371 x 97 mm 14.60 x 14.60 x 3.82 in	13.8 kg 30.42 lbs	3.0 kg 6.61 lbs

SAFETY STANDARDS

IEC 62368-1:2018

EN IEC 62368-1:2020+A11:2020

BS EN IEC 62368-1:2020+A11:2020

UL 62368-1:2019, CSA C22.2 No. 62368-1:19

CERTIFICATIONS

USA	EMC/EMI: CFR47, FCC part 15, Subpart B (class A) Bluetooth: FCC Part 15 Subpart C 15.247,15.205, 15.207 & 15.209 UNII 1 and 3: FCC part 15, Subpart C 15.247, 15.205, 15.207 & 15.209, Subpart E 15.407 UNII 2A and 2C: FCC part 15, subpart E 15.407, 15.247, 15.205, 15.207 & 15.209
CANADA	EMC/EMI: ICES-003 issue 7:2020 (class A) Bluetooth: RSS-247 issue 3 & RSS Gen Issue 5 UNII 3: RSS-247 issue 3 & RSS Gen Issue 5 UNII 2A and 2C: RSS-247 issue 3 & RSS Gen Issue 5
EUROPE	EMC/EMI: EN 55032:2015+A1:2020, EN 55035:2017+A11:2020 RED: EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 300 328, EN 301 893, EN 302 502, EN 303 413
UK	EMC/EMI: BS EN 55032:2015+A1:2020, BS EN 55035:2017+A11:2020 UKCA: EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 300 328, EN 301 893, EN 302 502, EN 303 413

PACKAGE CONTENTS

- One Stratum SX3-1020A unit with two RP-SMA connectors
  or One Stratum SX3-1021A with integrated antenna plus two RP-SMA connectors
  or One Stratum SX3-1029B with integrated antenna
- One (SX3-1020A, SX3-1029B) or Three (SX3-1021A) RP-SMA weather proofing caps
- Two M25 weather proofing cable glands
- One power injector and country specific power cord
- One full axis mounting kit
- One Grounding kit
- One Quick Installation Guide

MTBF & WARRANTY

>450 000 hours, 2-year warranty, ServPak Extended Support available.

ABOUT PROXIM WIRELESS :

Proxim Wireless is a global leader in advanced wireless broadband and WiFi solutions that deliver high performance and high availability communications.

Celebrating 40 years of pioneering wireless solutions, Proxim is recognized for unparalleled reliability, superior performance, and drive for innovation.

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