Stratum® X3 - 6 GHz

Product Snapshot

The Stratum X3 - 6GHz is a highly efficient and secure MIMO 2x2 outdoor wireless solution capable of throughput up to 1 Gbps.

The Stratum X3 offers 160, 80, 40, & 20MHz channels, operates between 5.925 and 7.125 GHz. and comes standard with 128 bit over the air encryption (256bit upgrade available).

Designed to enable fast, license free installation, the Stratum X3 offers the added flexibility of 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 via license upgrade)

Automated Frequency Coordination (AFC)

Automated Frequency Coordination (AFC) is an advanced cloud-based system for coordinating spectrum sharing, and is required for outdoor operation in the 6-GHz band in both the USA and Canada.

The Stratum X3 comes with a pre-loaded AFC service license and an external GPS antenna to enable the internal GPS module required for AFC positioning.

Flexible Antenna Options

The SX3-2021A is a flexible variant that includes an integrated dual polarity panel antenna, plus software selectable connectors for external antennas.

Model SX3-2020A is a connectorized unit purpose build for external dual polarity antennas where specific antenna patterns or gain adjustments are needed.

The SX3-2029B is point to multipoint base station with an integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna.

Advanced Interference Management

Proxim ClearConnect™ combines multiple dynamic technologies and delivers the best interference management solution.

Rugged Reliability

Stratum X3 uses an IP67-rated metal enclosure to ensure years of reliable service in harsh environments including high windsvand high salt conditions. The units are rated to operate between -40° to 140°F.

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 or other network management solutions.

Learn More about
Proxim WORP®

Learn More about
Proxim ClearConnect™

Specifications

PRODUCT MODELS

SX3-2021A-US	Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, 9° dual pol antenna or RP-SMA, GPS Antenna, AFC license - US PoE	PN: 906-00016
SX3-2020A-US	Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, RP-SMA, GPS Antenna, AFC license - US PoE	PN: 906-00022
SX3-2029B-US	Stratum X3, 6 GHz Base station with 64 client license, 1 Gbps, 90° dual pol sector or RP-SMA, GPS Antenna, AFC license - US PoE	PN: 906-00034
SX3-2020A-WC	Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, RP-SMA, GPS Antenna, AFC license - Canada PoE	PN: 906-00040
SX3-2021A-WC	Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, 9° dual pol antenna or RP-SMA, GPS Antenna, AFC license - Canada PoE	PN: 906-00041
SX3-2029B-WC	Stratum X3, 6 GHz Base Station with 64 client license, 1 Gbps, 90° dual pol sector, GPS Antenna, AFC license - Canada PoE	PN: 906-00042

LICENSES

SX3-202xA-AES256-UPG	Stratum X3, 6 GHz All-purpose unit AES 256 license upgrade	PN: 997-00069
SX3-202xA-64SU-UPG	Stratum X3, 6 GHz All-purpose unit, support for 1 to 64 SU license upgrade	PN: 997-00075
SX3-202xB-AES256-UPG	Stratum X3, 6 GHz Base Station, AES 256 license upgrade	PN: 997-00076

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	5.925 - 7.125 GHz (Subject to Country Regulations)
CHANNEL SIZE	20, 40, 80 and 160 MHz
TX POWER	Up to 27 dBm (dual chain)
TX POWER CONTROL	0 - 24 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit

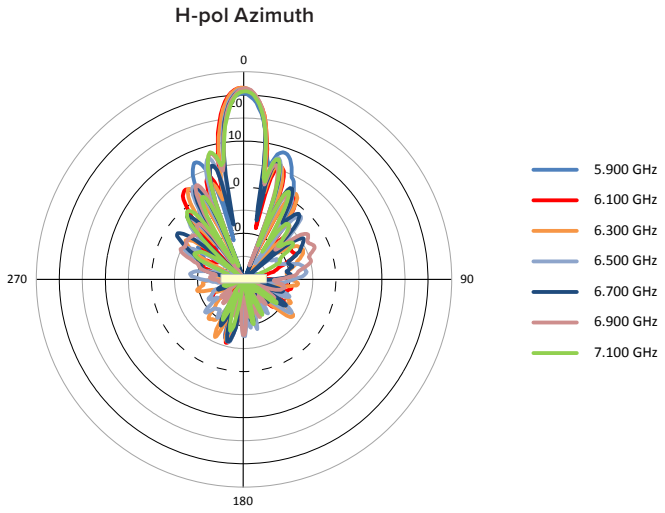
	20 MHz	40 MHz	80 MHz	160 MHz
TX POWER	MCS0:	MCS0:	MCS0:	MCS0:
2 RF	27	27	27	27
	MCS11:	MCS11:	MCS11:	MCS11:
2 RF	18	18	18	18
RX SENSITIVITY (Per=10-6)	MCS0:	MCS0:	MCS0:	MCS0:
	-89	-87	-83	-80
	MCS11:	MCS11:	MCS11:	MCS11:
	-59	-56	-52	-49
Throughput - Dual Stream	223 Mbps	435 Mbps	755 Mbps	1000 Mbps
OTHER	Automated Frequency Coordination (AFC)			
	Dynamic Channel Selection (DCS) based on interference detection,			
	Automatic Transmit Power Control (ATPC) with EIRP limit support			

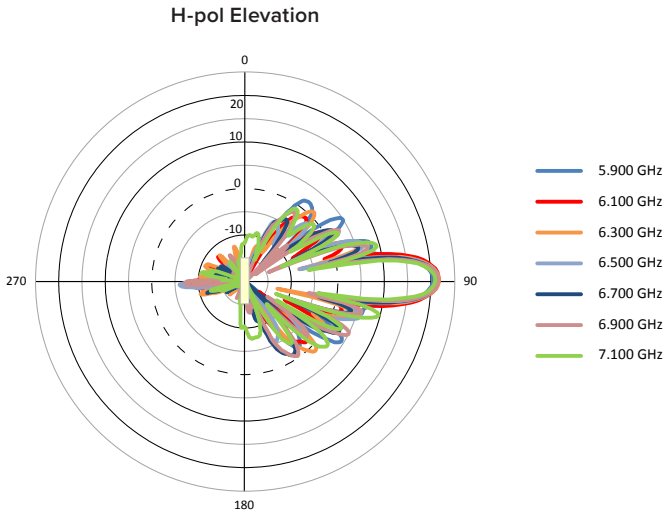
ANTENNA

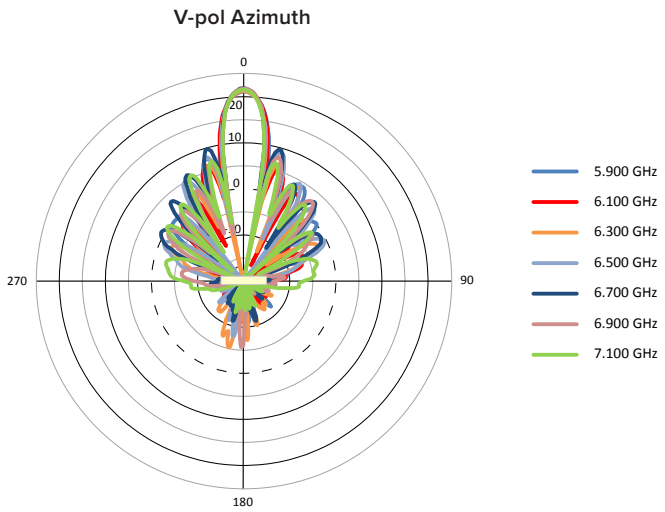
SX3-2020A	Two RP-SMA Connectors
SX3-2021A	Integrated 2x2 MIMO 23 dBi dual Polarized 8.5 degree Panel Antenna plus two RP-SMA Connectors (Software switch between integrated antenna and connectors)
SX3-2029B	Integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna (3 to 6 dBi horizontal polarity attenuation between 6.6 GHz and 6.9 GHz. Not suitable beyond 6.9 GHz)

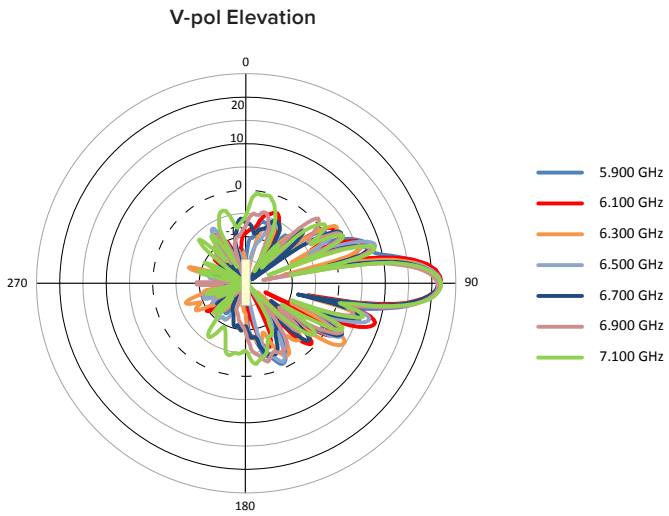
ANTENNA PATTERNS

SX3-2021A



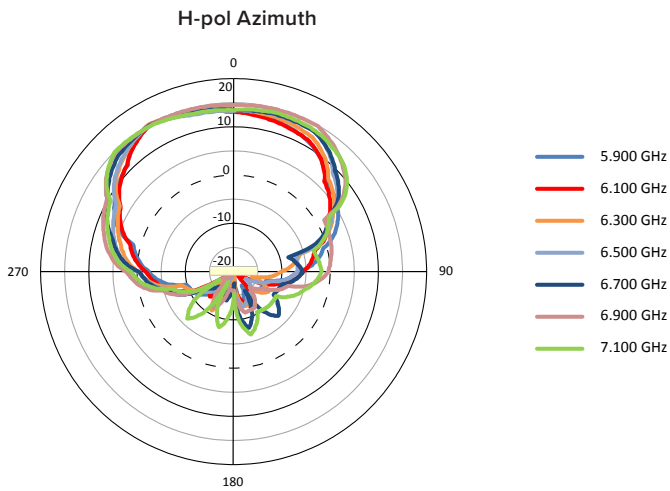


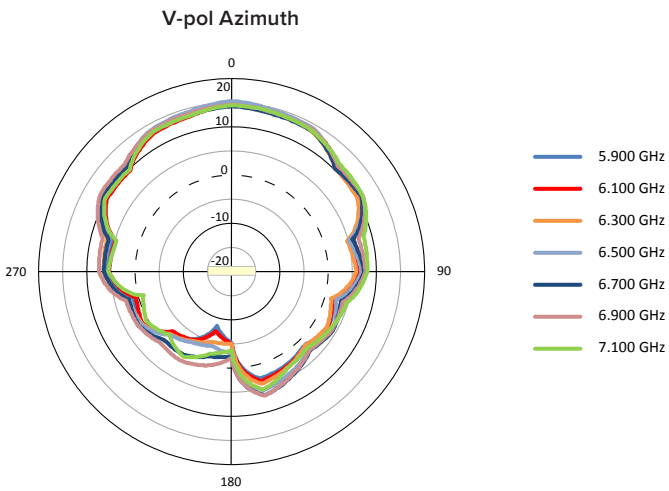


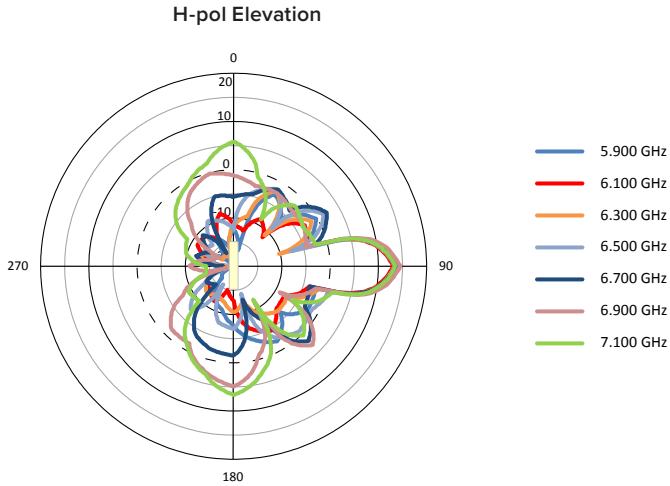


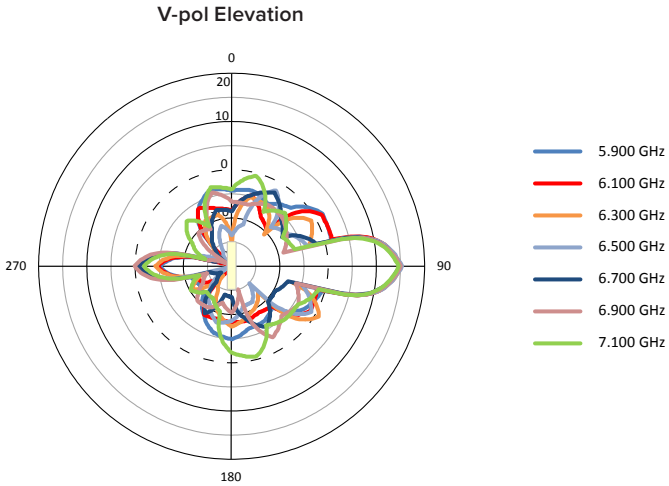
ANTENNA PATTERNS

SX3-2029B









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,

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.
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)
SX3-2020A	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
SX3-2021A	388 x 346 x 428 mm 15.27 x 13.62 x 16.85 in	305 x 305 x 90 mm 12 x 12 x 3.54 in.	12.6 Kg 27.78 lbs	2.4 kg 5.30 lbs
SX3-2029B	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 5 and 7: FCC part 15, subpart E 15.407
CANADA	EMC/EMI: ICES-003 issue 7:2020 (class A) Bluetooth: RSS-247 issue 3 & RSS Gen Issue 5 UNII 5,6 and 7: RSS-248 Issue 3 & RSS-102 Issue 6 & RSS Gen Issue 5

PACKAGE CONTENTS

- One Stratum SX3-2020A unit with two RP-SMA connectors
  or One Stratum SX3-2021A with integrated antenna plus two RP-SMA connectors
  or One Stratum SX3-2029B with integrated antenna
- One (SX3-2020A, SX3-2029B) or Three (SX3-2021A) RP-SMA weather proofing caps
- One GPS Antenna
- Two M25 weather proofing cable glands
- One power injectors and country specific power cords
- One full axis mounting kits
- One Grounding kits
- One Quick Installation Guides

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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