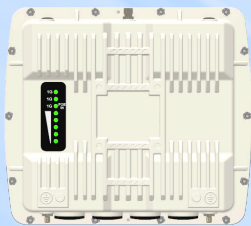


# Stratum™ X3 - 6GHz



## Product Snapshot

The Stratum X3 - 6GHz is a high performance MIMO 2x2 point-to-point solution capable of throughput up to 1Gbps. The Stratum X3 is an excellent long-range backhaul solution.

Both integrated and external antenna options are available and enable long-range high-capacity secure over the air Ethernet transmission.

- Throughput up to 1Gbps
- Wide Band Radio - 5.925 – 7.125 GHz
- Triple 1Gbps Ethernet with POE in and out
- AES 128-bit encryption is upgradeable to 256-bit
- 20, 40 and 80 MHz channels.
- Full tilt and swivel mounting kit included.

## 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.

## Advanced Interference Management

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

## 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.

## Rugged Reliability

Stratum X3 uses an IP67-rated metal enclosure to ensure years of reliable service in harsh environments, including high winds, high salt, and temperature extremes.

## Specifications

### PRODUCT MODELS

|              |   |               |
|--------------|---|---------------|
| SX3-2021A-WD | Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, 9° dual pol antenna or RP-SMA - WD PoE | PN: 906-00017 |
| SX3-2020A-WD | Stratum X3, 6 GHz All-purpose unit (BSU single or SU), 1 Gbps, RP-SMA - WD PoE                        | PN: 906-00023 |

### LICENSES

|                      |  |               |
|----------------------|--|---------------|
| SX3-202xA-AES256-UPG | Stratum X3, 6 GHz All-purpose unit AES 256 license upgrade | PN: 997-00069 |
|----------------------|--|---------------|

### INTERFACES

|                   |  |
|-------------------|--|
| WIRED ETHERNET    | One auto MDI-X RJ45 1 Gbps Ethernet with PoE in<br>One auto MDI-X RJ45 1 Gbps Ethernet with PoE out<br>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 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 <sup>-6</sup> ) | MCS0:  | MCS0:    | MCS0:    |
|  | -89  | -87      | -83      |
|  | MCS11:   | MCS11:   | MCS11:   |
|  | -59  | -56      | -52      |
| Throughput - Dual Stream               | 223 Mbps   | 435 Mbps | 755 Mbps |
| OTHER                                  | Dynamic Channel Selection (DCS) based on interference detection, |          |          |
|  | Automatic Transmit Power Control (ATPC) with EIRP limit support  |          |          |

## ANTENNA

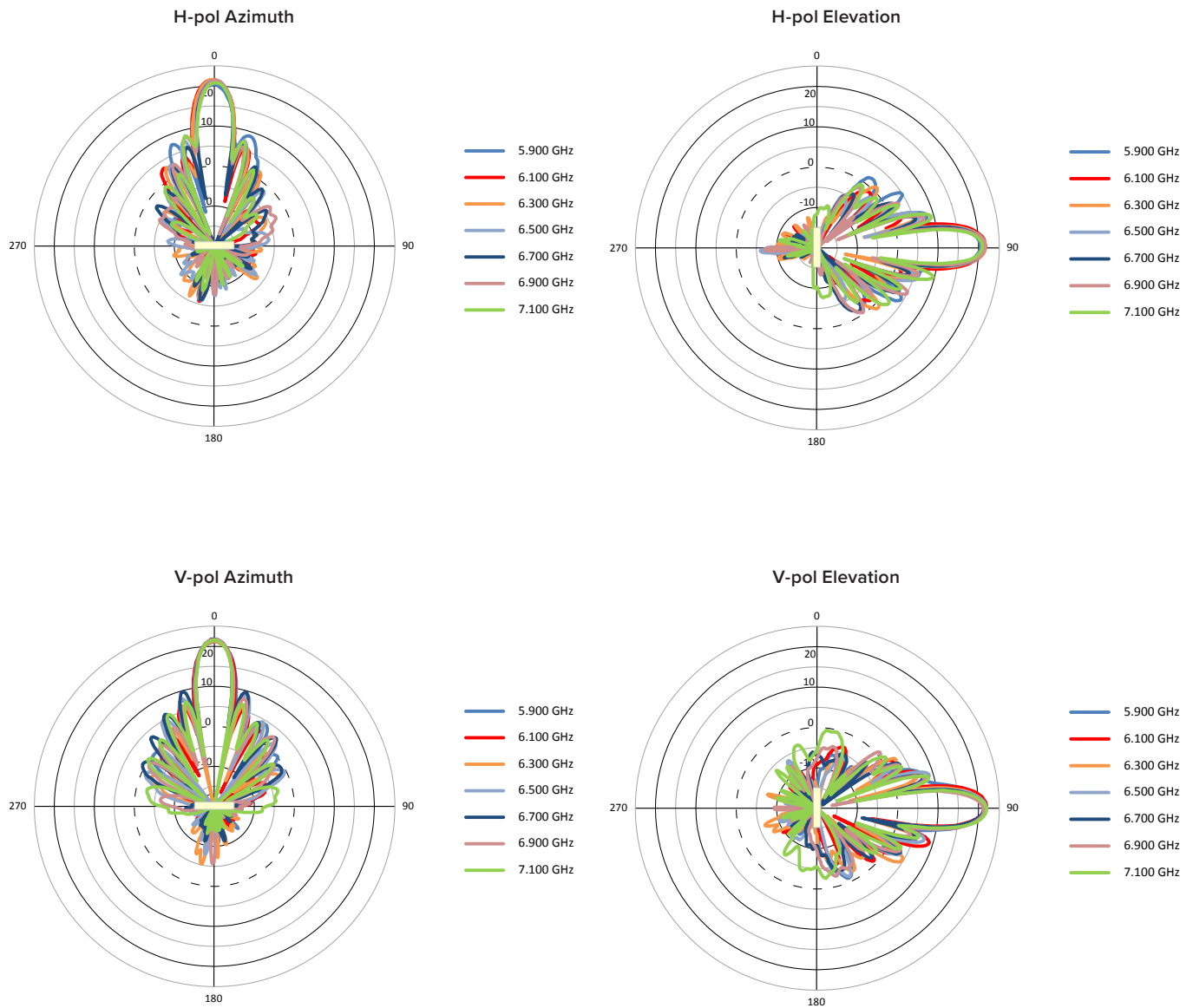
SX3-2020A

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)

## ANTENNA PATTERNS



## 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) |

## NETWORK

|          |   |
|----------|---|
| MODES    | Bridging, (Routing to be added by future firmware update)                               |
| IP STACK | IPv4 and IPv6 simultaneously  |
| VLAN     | 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging |

## 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<br>15.27 x 13.62 x 16.85 in | 250 x 220 x 62 mm<br>9.84 x 8.66 x 2.44 in | 10.0 Kg<br>22.04 lbs               | 1.6 Kg<br>3.53 lbs   |
| SX3-2021A           | 388 x 346 x 428 mm<br>15.27 x 13.62 x 16.85 in | 305 x 305 x 90 mm<br>12 x 12 x 3.54 in.    | 12.6 Kg<br>27.78 lbs               | 2.4 kg<br>5.30 lbs   |

## SAFETY STANDARDS (Pending)

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 (Pending)

|        |   |
|--------|---|
| USA    | EMC/EMI: CFR47, FCC part 15, Subpart B (class A)<br>Bluetooth: FCC Part 15 Subpart C 15.247,15.205, 15.207 & 15.209 |
| CANADA | EMC/EMI: ICES-003 issue 7:2020 (class A)<br>Bluetooth: RSS-247 issue 3 & RSS Gen Issue 5                            |
| EUROPE | EMC/EMI: EN 55032:2015+A1:2020, EN 55035:2017+A11:2020  |
| UK     | EMC/EMI: BS EN 55032:2015+A1:2020, BS EN 55035:2017+A11:2020  |

## PACKAGE CONTENTS

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- One Stratum SX3-2020A unit with two RP-SMA connectors  
or One Stratum SX3-2021A with integrated antenna plus two RP-SMA connectors
- One (SX3-2020A) or Three (SX3-2021A) RP-SMA weather proofing caps
- 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

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>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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