

# Stratum<sup>®</sup> X5 2x2 Edition - 5GHz



## Product Snapshot

The Stratum X5 2x2 Edition combines the advanced Ethernet and fiber interfaces of the Stratum X5 with the extended range performance of the Stratum X3.

Delivering >1 Gbps throughput, it is a versatile, multi-purpose radio supporting:

- Point-to-Point (PtP) endpoint.
- Point-to-Multipoint (PtMP) CPE.
- Point-to-Multipoint (PtMP) Base Station (2–64 clients with license upgrade)

All models feature a rugged IP67-rated metal enclosure and operate in extreme conditions from -40° to 140° Fahrenheit.

Other Features Include:

- Throughput >1 Gbps.
- Wide Band Radio - 5.150 - 5.850 GHz.
- 2.5 Gbps Ethernet with optional 10 Gbps SFP+ optical transceiver cage
- Advanced VLAN per port support
- AES 128-bit encryption is upgradeable to 256-bit
- Full tilt and swivel mounting kit included.

## Flexible Antenna Options

The SX5-1021A is a flexible variant that includes an integrated dual polarity panel antenna, plus software selectable connectors for external antennas.

The SX5-1029B 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.

## Flexible and Secure Management Options

Management options include TLS 1.3 web GUI, SSH 2.0 CLI, and SNMP v3 for ProximVision Advanced or other network management solutions.

## Rugged Reliability

Stratum X5 2x2 Edition 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

|              |                                                                                                                    |               |
|--------------|--------------------------------------------------------------------------------------------------------------------|---------------|
| SX5-1021A-US | Stratum X5 2x2 Edition, 5 GHz All-purpose unit (BSU single or SU), 1 Gbps, 10° dual pol antenna or RP-SMA - US PoE | PN: 906-00045 |
| SX5-1029B-US | Stratum X5 2x2 Edition, 5 GHz Base station with 64 client license, 1 Gbps, 90° dual pol sector - US PoE            | PN: 906-00048 |

## LICENSES

|                      |                                                                                        |               |
|----------------------|----------------------------------------------------------------------------------------|---------------|
| SX5-102xA-64SU-UPG   | Stratum X5 2x2 Edition, 5 GHz All-purpose unit, support for 1 to 64 SU license upgrade | PN: 997-00078 |
| SX5-102xA-AES256-UPG | Stratum X5 2x2 Edition, 5 GHz All-purpose unit AES 256 license upgrade                 | PN: 997-00079 |
| SX5-102xB-AES256-UPG | Stratum X5 2x2 Edition, 5 GHz Base Station, AES 256 license upgrade                    | PN: 997-00080 |

## INTERFACES

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| WIRED ETHERNET                 | One auto MDI-X RJ45 2.5 Gbps Ethernet with PoE in<br>One auto MDI-X RJ45 1 Gbps Ethernet with PoE out |
| EXTENSION<br>WIRELESS PROTOCOL | One SFP+ cage for 10Gbps fiber module (SR or LR)<br>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 (80+80 via future upgrade)                         |
| TX POWER         | Up to 26 dBm (dual chain)                                            |
| TX POWER CONTROL | 0 - 21 dB, in 1 dB steps. Automatic TPC with configurable EIRP limit |

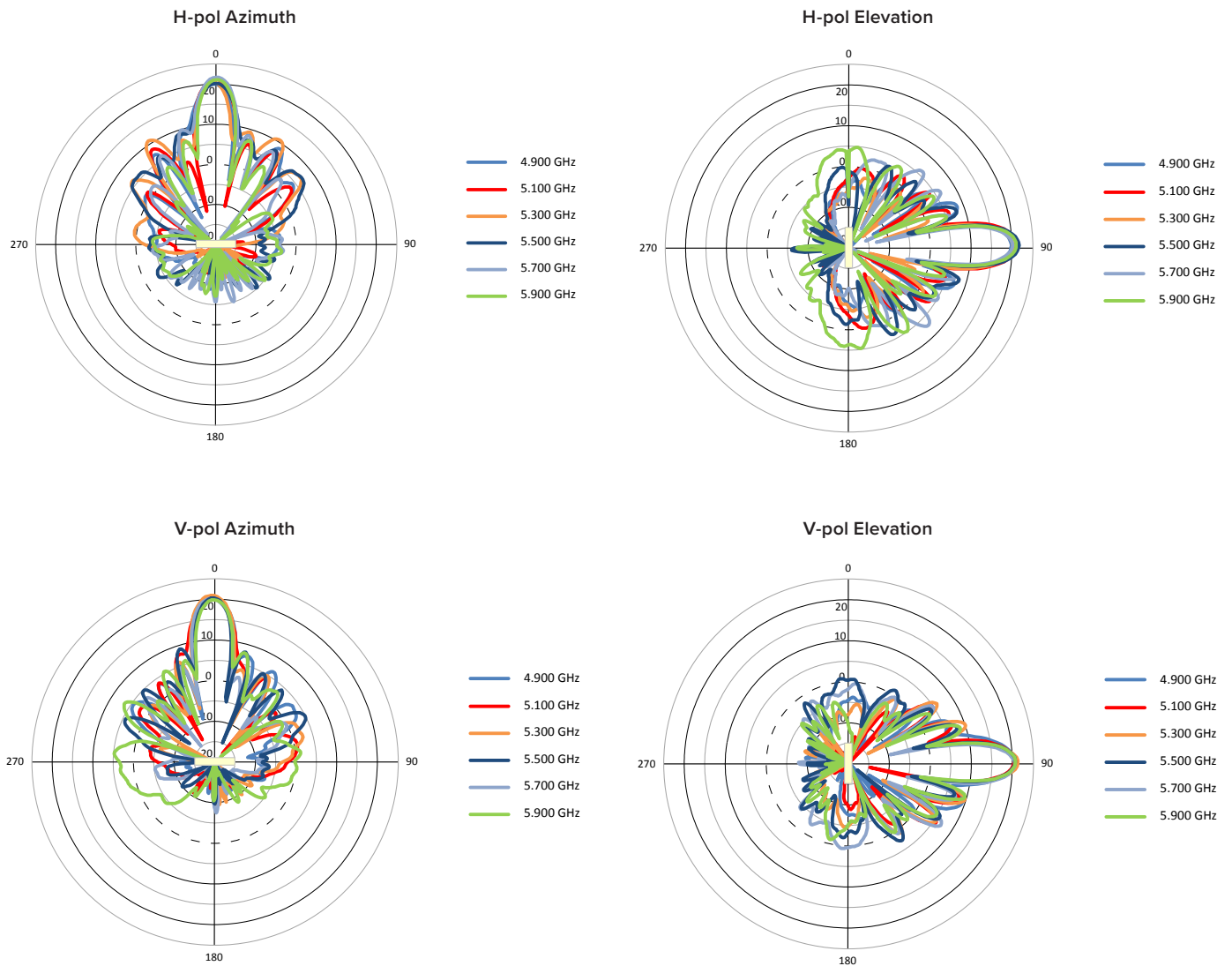
|                                        | 20 MHz                                                           | 40 MHz   | 80 MHz   |
|----------------------------------------|------------------------------------------------------------------|----------|----------|
| TX POWER                               | MCS0:                                                            | MCS0:    | MCS0:    |
| 2 RF                                   | 26                                                               | 26       | 26       |
|                                        | MCS11:                                                           | MCS11:   | MCS11:   |
| 2 RF                                   | 21                                                               | 21       | 21       |
| RX SENSITIVITY (Per=10 <sup>-6</sup> ) | MCS0:                                                            | MCS0:    | MCS0:    |
|                                        | -92                                                              | -90      | -87      |
|                                        | MCS11:                                                           | MCS11:   | MCS11:   |
|                                        | -65                                                              | -63      | -59      |
| 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

|           |                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SX5-1021A | Integrated 2x2 MIMO 22 dBi dual Polarized 10 degree Panel Antenna plus two RP-SMA Connectors<br>(Software switch between integrated antenna and connectors) |
| SX5-1029B | Integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna                                                                                          |

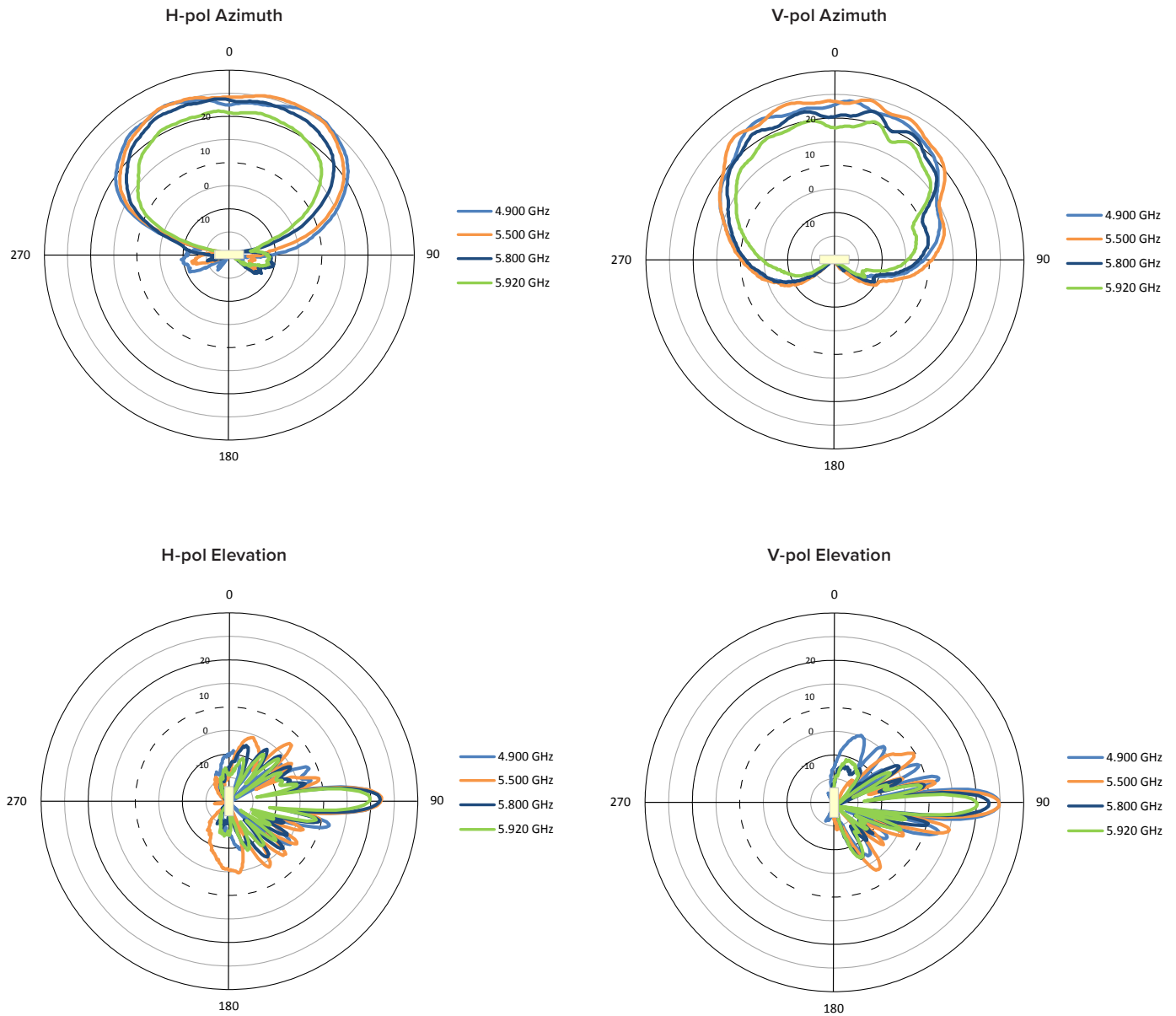
## ANTENNA PATTERNS

SX5-1021A



## ANTENNA PATTERNS

SX5-1029B



## MANAGEMENT

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| 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. QinQ double tagging |
| GATEWAY FEATURES | DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS                  |

## POWER

802.3at/bt 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)  |
| SX5-1021A           | 388 x 346 x 428 mm<br>15.27 x 13.62 x 16.85 in | 305 x 305 x 77 mm<br>12 x 12 x 3.03 in       | 12.2 Kg<br>26.90 lbs               | 2.2 kg<br>4.85 lbs   |
| SX5-1029B           | 415 x 415 x 485 mm<br>16.34 x 16.34 x 16.85 in | 371 x 371 x 97 mm<br>14.60 x 14.60 x 3.82 in | 13.8 kg<br>30.42 lbs               | 3.0 kg<br>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

PACKAGE CONTENTS

- One Stratum SX5-1021A with integrated antenna plus two RP-SMA connectors or One Stratum SX5-1029B with integrated antenna
- One (SX5-1029B) or Three (SX5-1021A) 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

>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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