# Stratum® X1 - 5GHz

## Product Snapshot

The Stratum X1 - 5GHz is a compact MIMO 2x2 point-to-multipoint endpoint or CPE, specifically engineered for the dependable and efficient transmission of high-resolution video and essential business data. It serves as an endpoint for the Stratum X3 Multipoint Base Station, enabling the implementation of cost-effective multipoint networks.

With its compact design and a throughput capacity of up to 500 Mbps, the Stratum X1 is perfect for applications such as street-level installations in video surveillance networks.

- Throughput up to 500 Mbps
- Wide Band Radio - 5.150 – 5.850 GHz
- AES 128-bit encryption is upgradeable to 256-bit
- 20, 40, 80 and 160 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 X1 – 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 X1 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.

Learn More about
Proxim WORP®

Learn More about
Proxim ClearConnect™

## Specifications

### PRODUCT MODELS

| | | |
|---|---|---|
| SX1-1023C-WD | Stratum X1, 5 GHz CPE, 500 Mbps, 35° dual pol antenna or RP-SMA - WD PoE | PN: 906-00026 |

### LICENSES

| | | |
|---|---|---|
| SX1-102xC-AES256-UPG | Stratum X1, 5 GHz CPE AES 256 license upgrade | PN: 997-00071 |

### INTERFACES

| | |
|---|---|
| WIRED ETHERNET | One auto MDI-X RJ45 1 Gbps Ethernet with PoE in |
| 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, 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: |
| | -92 | -90 | -86 | -83 |
| | MCS11: | MCS11: | MCS11: | MCS11: |
| | -61 | -59 | -55 | -52 |
| Throughput - Dual Stream | 223 Mbps | 435 Mbps | 500 Mbps | 500 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 | | | |

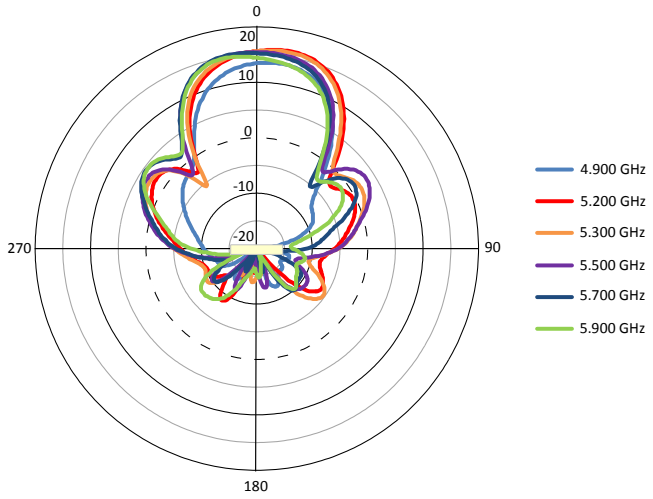
## ANTENNA

| | |
|---|---|
| SX1-1023C | Integrated 2x2 MIMO 15 dBi dual Polarized 35 degree Panel Antenna plus two RP-SMA Connectors (Software switch between integrated antenna and connectors) |

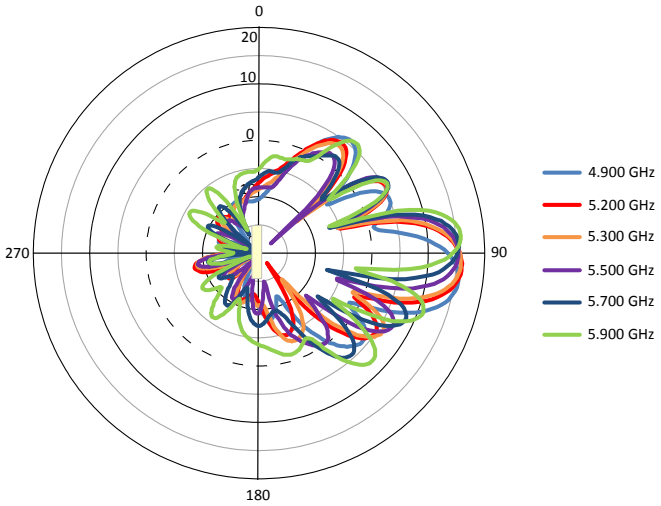
## ANTENNA PATTERNS

SX1-1023C

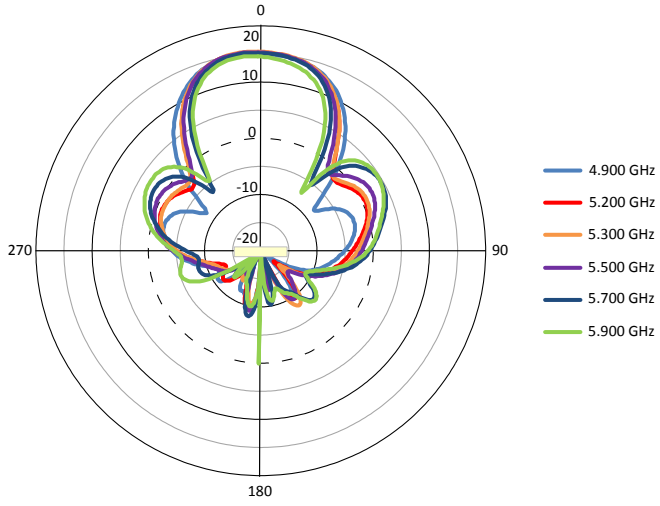
H-pol Azimuth



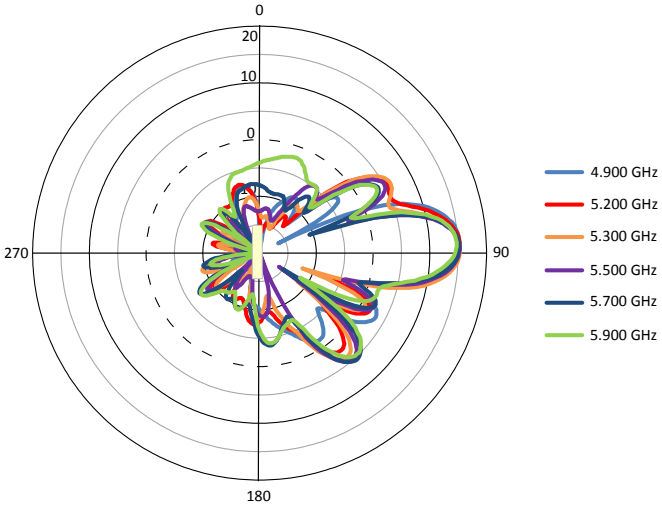

H-pol Elevation




V-pol Azimuth




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, |

## 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) | DIMENSIONS UNPACKAGED | WEIGHT (Shipping Carton) | WEIGHT (UNPACKAGED) |
| SX1-1023C | 310 x 226 x 98 mm (12.2 x 8.9 x 3.85 in) | 170 x 217 x 56 mm (6.7 x 8.55 x 2.2 in) | 2.85 kg (6.28 lbs) | 1.24 kg (2.73 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)<br>Bluetooth: FCC Part 15 Subpart C 15.247,15.205, 15.207 & 15.209<br>UNII 1 and 3: FCC part 15, Subpart C 15.247, 15.205, 15.207 & 15.209, Subpart E 15.407<br>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)<br>Bluetooth: RSS-247 issue 3 & RSS Gen Issue 5<br>UNII 3: RSS-247 issue 3 & RSS Gen Issue 5<br>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<br>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<br>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 SX1-1023C unit with two RP-SMA connectors
- Three RP-SMA weather proofing caps
- One 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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