

Stratum™ X5 Quickbridge - 5GHz



Product Snapshot

The Stratum™ X5 Quickbridge - 5GHz is an ultra-high-performance point-to-point bridge in a box solution. Ideal for customers who need a point-to-point wireless link up and running quickly.

The Stratum™ X5 is a 5GHz, MIMO 4x4 point-to-point radio system with greater than 1.5 Gbps throughput, and is ideally suited to high capacity backhaul applications

The 4x4 MIMO radio offers two significant benefits :

- In MIMO 4x4:4 mode, a 20MHz channel will double the throughput compared to the typical MIMO 2x2:2 point-to-point systems available today.
- In MIMO 4x4:2 mode, antenna diversity enables two mirrored data streams that improve radio stability in harsh environments.

Other Features Include :

- Throughput >1.5 Gbps TCP and 1.8 Gbps UDP
- Wide Band Radio - 5.150 – 5.850 GHz
- 2.5 Gbps Ethernet with optional 10 Gbps SFP+ optical transceiver cage
- AES 128-bit encryption is upgradeable to 256-bit
- Full tilt and swivel mounting kit included.

Flexible Antenna Options

The SX5-1042A is a flexible variant that includes an integrated quad polarity panel antenna, plus software selectable connectors for external antennas.

Model SX5-1040A is a connectorized unit purposed build for external quad 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.

Bridge in a Box

Ship as a preconfigured Quickbridge bundle: two units paired into a point to point link in a single carton.

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 x5 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

| | | |
|--------------------------|--|---------------|
| SX5-1040A-WD Quickbridge | Stratum X5 Quickbridge, Pair of 5 GHz All-purpose unit (BSU single or SU), 1+ Gbps, RP-SMA - WD PoE | PN: 907-00003 |
| SX5-1042A-WD Quickbridge | Stratum X5 Quickbridge, Pair of 5 GHz All-purpose unit (BSU single or SU), 1+ Gbps, 19° quad pol antenna and RP-SMA - WD PoE | PN: 907-00004 |

LICENSES

| | | |
|-------------------------|--|---------------|
| SX5-104xA-QB-AES256-UPG | Stratum X5 Quickbridge, 5 GHz link AES 256 license upgrade | PN: 997-00063 |
|-------------------------|--|---------------|

INTERFACES

| | |
|--------------------------------|---|
| WIRED ETHERNET | One auto MDI-X RJ45 2.5 Gbps Ethernet with PoE in One auto MDI-X RJ45 1 Gbps Ethernet with PoE out |
| EXTENSION WIRELESS PROTOCOL | One SFP+ port for Fiber or Copper 10 Gbps SFP module WORP® (Wireless Outdoor Router Protocol) |

RADIO & TX SPECS

| | |
|------------------|--|
| MIMO | 2x2:2 and 4x4:4 |
| MODULATION | OFDM BPSK-QAM1024 |
| FREQUENCY | 5.150 – 5.925 GHz (Subject to Country Regulations) |
| CHANNEL SIZE | 20, 40 and 80 MHz (80+80 and 160 MHz via future upgrade) |
| TX POWER | Up to 26 dBm (dual chain) or 29 dBm (quad 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 |
| 4 RF | 29 | 29 | 29 |
| | MCS9: | MCS11: | MCS11: |
| 2 RF | 21 | 20 | 20 |
| 4 RF | 24 | 23 | 23 |
| RX SENSITIVITY (Per=10 ⁻⁶) | MCS0: | MCS0: | MCS0: |
| | -92 | -90 | -87 |
| | MCS9: | MCS11: | MCS11: |
| | -71 | -63 | -59 |
| Throughput - Dual Stream | 223 Mbps | 435 Mbps | 755 Mbps |
| Throughput - Quad Stream | 442 Mbps | 820 Mbps | 1581 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

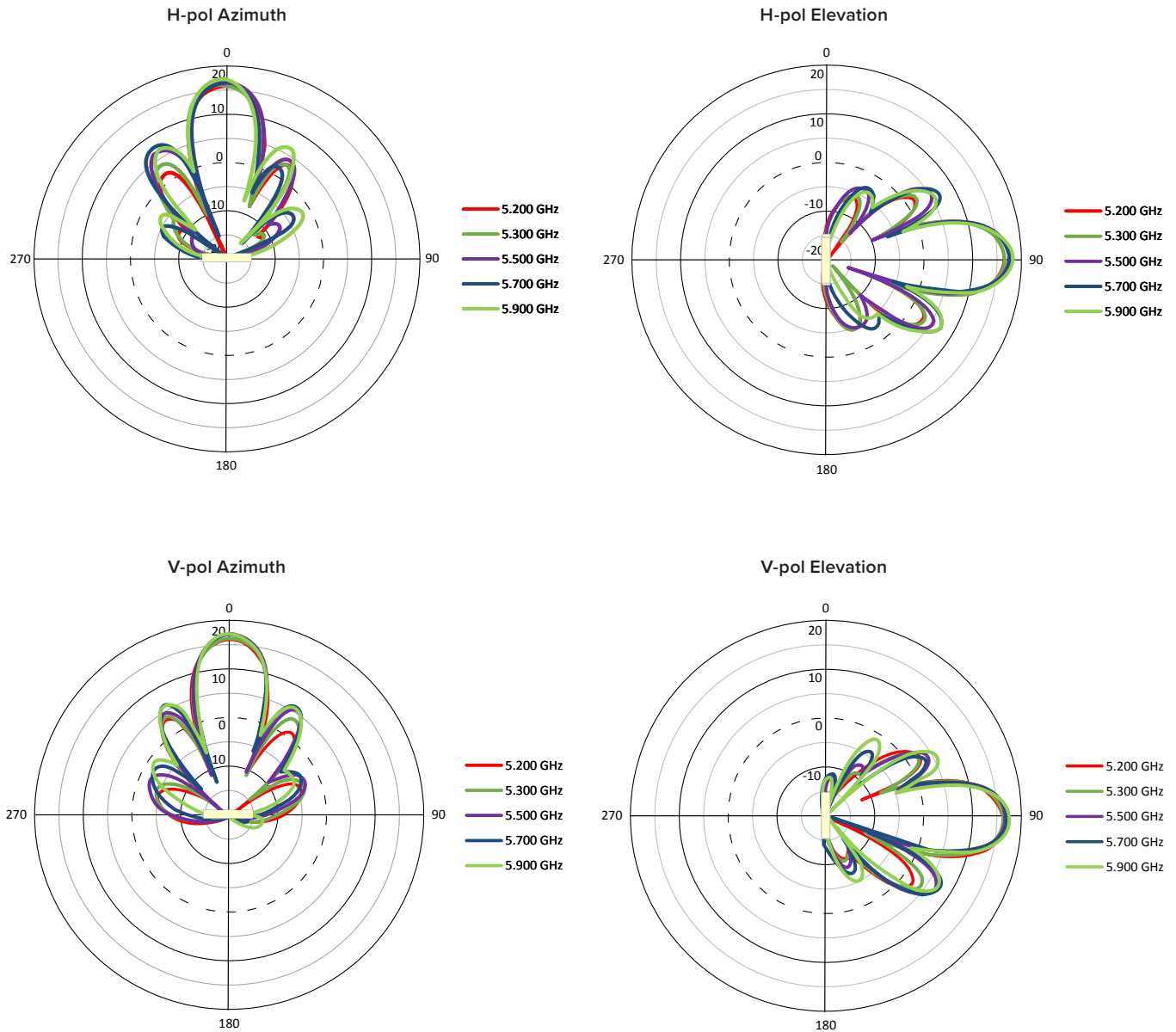
SX5-1040A

Four RP-SMA Connectors

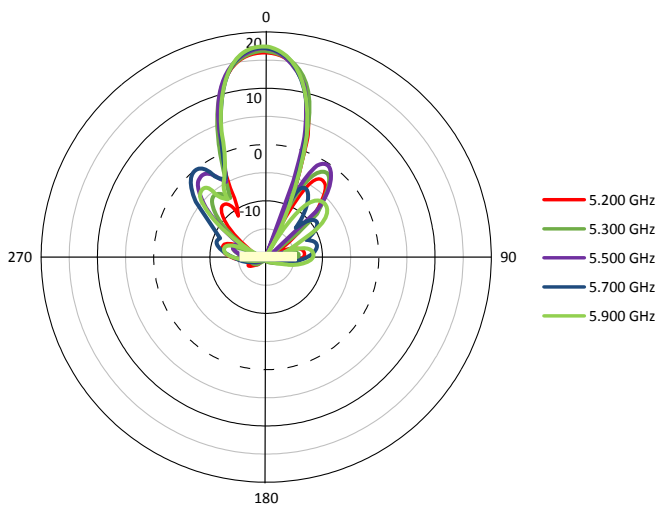
SX5-1042A

Integrated 4x4 MIMO 18 dBi Quad Polarized 19 degree Panel Antenna plus Four RP-SMA Connectors
(Software switch between integrated antenna and connectors)

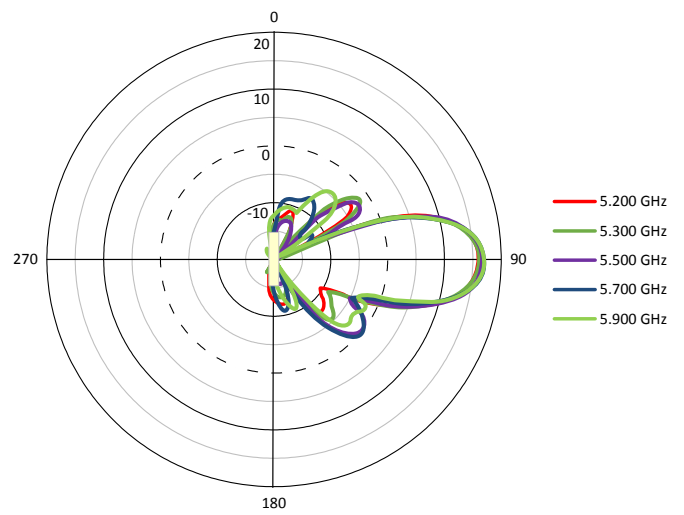
ANTENNA PATTERNS (Sector Mode)



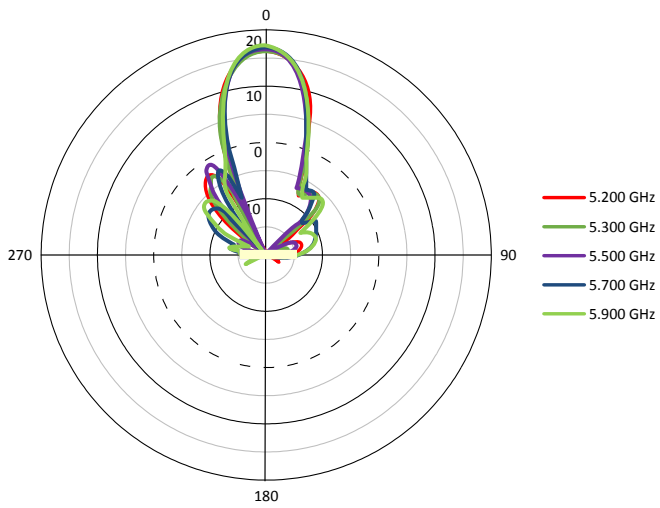
+45-pol Azimuth



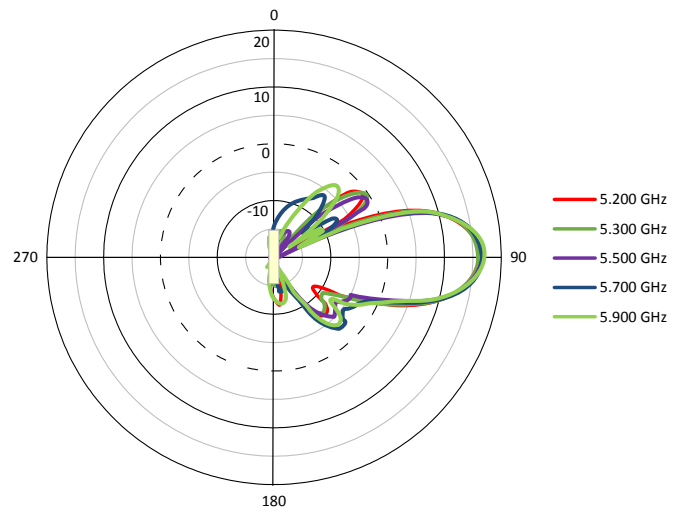
+45-pol Elevation



-45-pol Azimuth



-45-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 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 |
| 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
22 to 25 W max in MIMO 4x4 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 or 1 QB link) | DIMENSIONS UNPACKAGED | WEIGHT (Shipping Carton - 2 Units or 1 QB link) | WEIGHT (UNPACKAGED) |
| SX5-1040A | 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 |
| SX5-1042A | 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 SX5-1040A unit with four RP-SMA connectors
or One Stratum SX5-1042A with integrated antenna plus four RP-SMA connectors
- Three (SX5-1040A) or Five (SX5-1042A) 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

One Stratum X5 Quickbridge package includes twice the above content. The two units are paired together into a Point to Point link.

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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