

Stratum[®] X5 2x2 Edition Quickbridge - 5GHz



Product Snapshot

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

Delivering >1 Gbps throughput, it is a versatile, point-to-point bridge-in-a-box solution

The Stratum X5 2x2 Edition Quickbridge[®] is designed to simplify installation of point-to-point networks and includes a bundle of two preconfigured Stratum X5 2x2 Edition endpoints that have been paired ready for service in the field.

This model 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 Quickbridge is a flexible variant that includes an integrated dual polarity panel antenna, plus software selectable connectors for external antennas.

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 Quickbridge	Stratum X5 Quickbridge 2x2 Edition, Pair of 5 GHz All-purpose unit (BSU single or SU), 1 Gbps, 10° dual pol antenna or RP-SMA - US PoE	PN:907-00045

LICENSES		
SX5-102xA-QB-AES256-UPG	Stratum X5 Quickbridge 2x2 Edition, 5 GHz link AES 256 license upgrade	PN: 997-00081

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+ cage for 10Gbps fiber module (SR or LR) 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	20	20
RX SENSITIVITY (Per=10 ⁻⁶)	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		

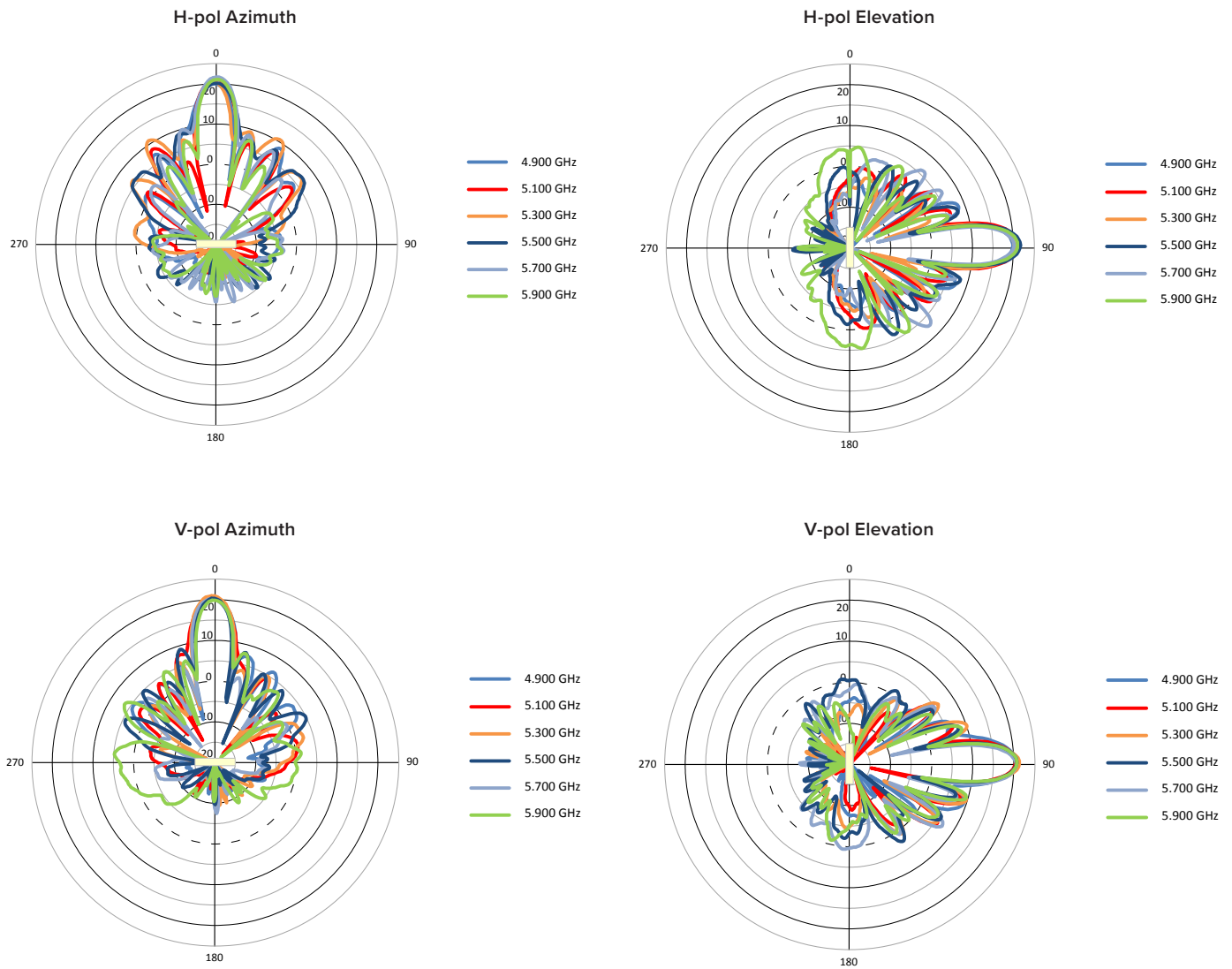
ANTENNA

SX5-1021A

Integrated 2x2 MIMO 22 dBi dual Polarized 10 degree Panel Antenna plus two RP-SMA Connectors
(Software switch between integrated antenna and connectors)

ANTENNA PATTERNS

SX5-1021A



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 or 1 QB link)	DIMENSIONS UNPACKAGED	WEIGHT (Shipping Carton - 2 Units or 1 QB link)	WEIGHT (UNPACKAGED)
SX5-1021A	388 x 346 x 428 mm 15.27 x 13.62 x 16.85 in	305 x 305 x 77 mm 12 x 12 x 3.03 in	12.2 Kg 26.90 lbs	2.2 kg 4.85 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
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PACKAGE CONTENTS

- One Stratum SX5-1021A with integrated antenna plus two RP-SMA connectors
- Three 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 2x2 Edition 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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