

Stratum[®] X5 2x2 Edition - 5GHz



Aperçu Produit

Le Stratum X5 2x2 Edition combine les interfaces Ethernet et fibre optique avancées du Stratum X5 avec la portée étendue du Stratum X3.

Offrant un débit supérieur à 1 Gbit/s, cette radio polyvalente prend en charge les modes suivants:

- Point de terminaison point à point.
- client (CPE) point à multipoint.
- Station de base point à multipoint (la prise en charge de 2 à 64 clients nécessite une mise à niveau par licence)

Tous les modèles utilisent des boîtiers métalliques normés IP67 et fonctionnent dans des conditions extrêmes de -40° à + 60°.

Autres caractéristiques :

- Débit supérieur à 1 Gbit/s.
- Radio large bande - 5,150 – 5,850 GHz.
- Port 2,5 Gbit/s avec option SFP+ pour module optique 10 Gbit/s
- Prise en charge avancée des VLAN par port
- Cryptage AES 128 bits évolutif vers 256 bits
- Kit de fixation multidirectionnel inclus

Options d'antenne flexibles

Le SX5-1021A est une version flexible qui inclut une antenne intégrée double polarités plus des connecteurs pour antennes externes, logiciellement sélectionnables.

Le SX5-1029B est une station de base point à multipoint avec une antenne sectorielle à double polarisation 2x2 MIMO, d'ouverture 90 degrés et de gain 16 dBi.

Gestion avancée des interférences

Proxim ClearConnect[™] combine plusieurs technologies dynamiques et offre la meilleure solution de gestion des interférences disponible.

Options de gestions flexibles et sécurisées

Les options de gestions incluent une interface graphique Web TLS 1.3, un client CLI SSH v2 et le SNMP v3 pour ProximVision Advanced ou d'autres solutions de gestions de réseaux.

Robuste et fiable

Stratum X5 2x2 utilise un boîtier métallique conforme à la norme IP67 pour garantir des années de service fiable dans des conditions telles que les grands vents, les environnements maritimes (salins) et les températures extrêmes.

Specifications

PRODUCT MODELS

SX5-1021A-WD	Stratum X5 2x2 Edition, 5 GHz All-purpose unit (BSU single or SU), 1 Gbps, 10° dual pol antenna or RP-SMA - WD PoE	PN: 906-00046
SX5-1029B-WD	Stratum X5 2x2 Edition, 5 GHz Base station with 64 client license, 1 Gbps, 90° dual pol sector - WD PoE	PN: 906-00049

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 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

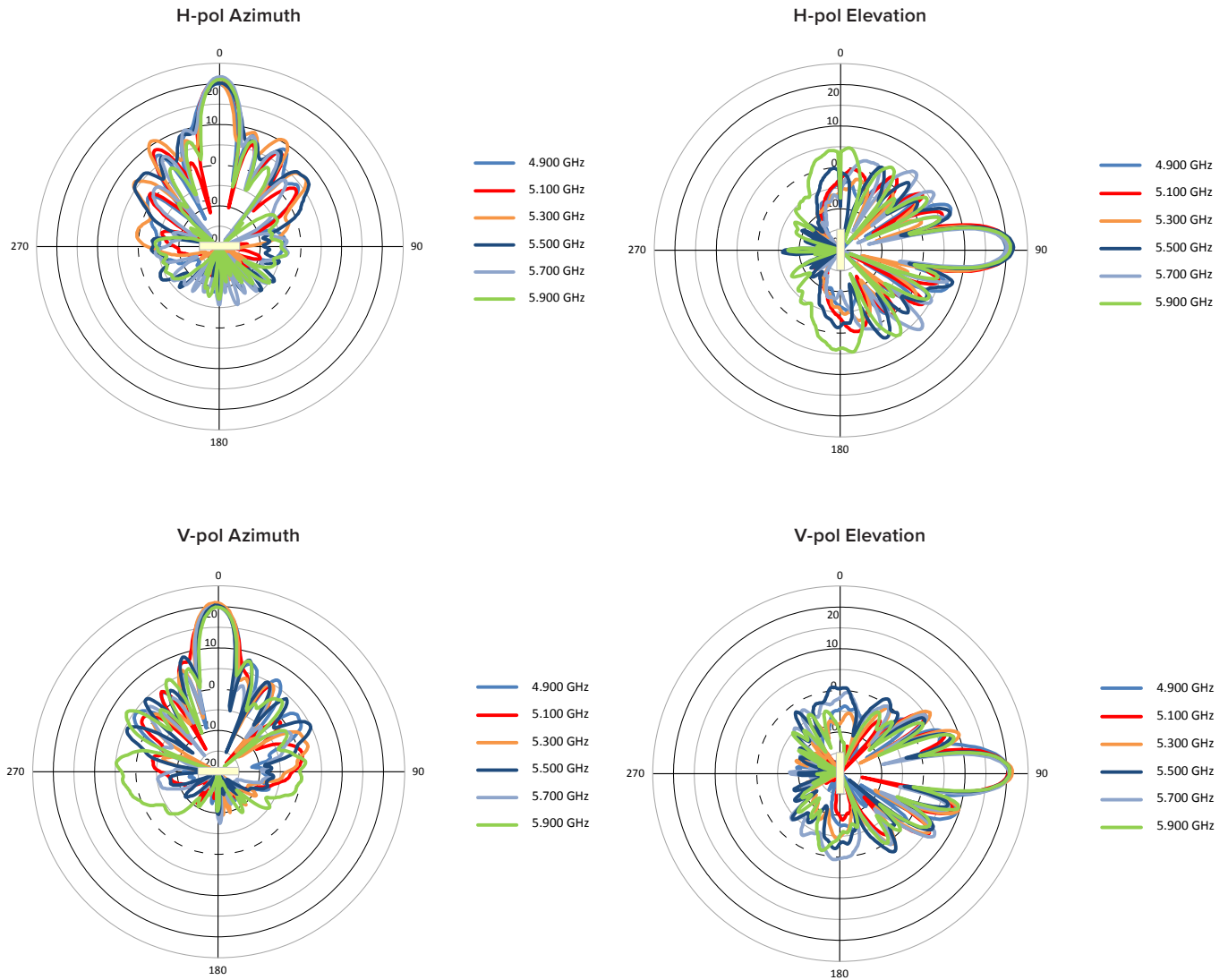
	20 MHz	40 MHz	80 MHz
TX POWER	MCS0:	MCS0:	MCS0:
2 RF	26	26	26
	MCS11:	MCS11:	MCS11:
2 RF	21	21	21
RX SENSITIVITY (Per=10 ⁻⁶)	MCS0:	MCS0:	MCS0:
	-92	-90	-87
	MCS11:	MCS11:	MCS11:
	-65	-63	-59
Throughput - Dual Stream	223 Mbps	435 Mbps	755 Mbps
OTHER	Dynamic Channel Selection (DCS) based on interference 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)
SX5-1029B	Integrated 2x2 MIMO 16 dBi dual Polarized 90 degree Sector Antenna

ANTENNA PATTERNS

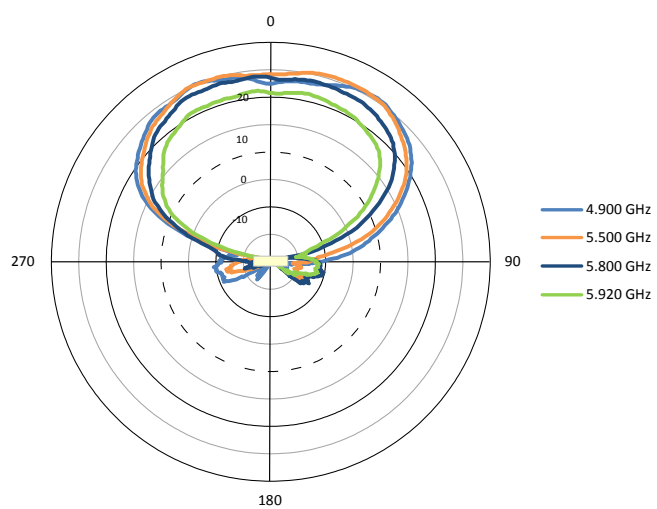
SX5-1021A



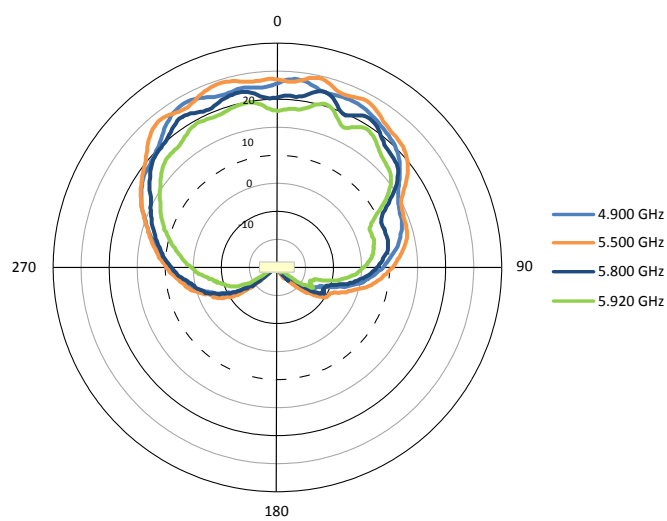
ANTENNA PATTERNS

SX5-1029B

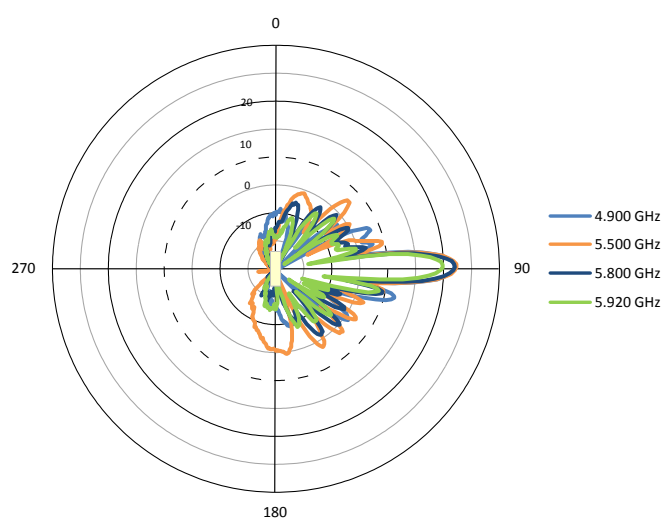
H-pol Azimuth



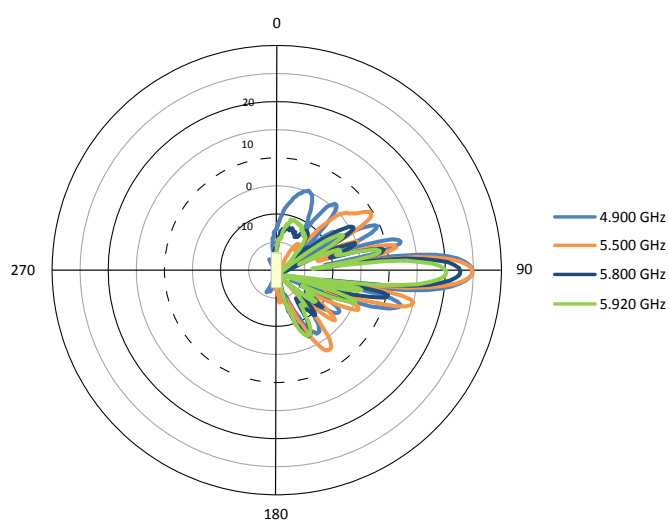
V-pol Azimuth



H-pol Elevation



V-pol Elevation



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 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
SX5-1029B	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 SX5-1021A 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.

Qui sommes-nous ?

Proxim Wireless est un leader mondial des solutions haut débit sans fil et WiFi avancées qui fournissent des communications hautes performances et hautes disponibilités.

Célébrant 40 ans d’innovation dans les solutions sans fil, Proxim est reconnue pour sa fiabilité inégalée, ses performances supérieures et sa volonté d’innover.

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