



STREAMCASTER® 4400 XTREME

AS TOUGH AS THE MISSION

The SC4400X delivers the proven performance of the StreamCaster 4400 MANET radio in an ultra-ruggedized, corrosion-resistant form factor. With up to 20 Watts of output power and 100 Mbps data throughput and powered by Silvus' battle-proven MN-MIMO waveform – the SC4400X enables mission-critical connectivity in the world's harshest environments.

Key Features

Ultra-Rugged Enclosure: Constructed from sea-grade aluminum with MIL-A-8625-F Type III hard anodizing and locking marine grade I/O connector for superior corrosion resistance

Enhanced Thermal Protection: Optimized enclosure with enhanced thermal characteristics improve passive cooling and thermal performance during sustained high-power operations

Flexible Power Input: 9-50 VDC input range supports diverse deployment platforms

Visual Status Feedback: Integrated LED provides at-a-glance operational status

Mechanical Compatibility: Matches SC4400 mounting pattern for seamless integration with existing systems and accessories

STREAMCASTER 4400 XTREME

Thermally Optimized Design | Corrosion-Resistant Connectors | Powerful Performance

Type 3, Hard Anodizing for
Maximum Toughness

Single Locking
Marine Grade Connector

Corrosion-Resistant
Antenna Ports

LED Status Light

SPECIFICATIONS

GENERAL

MODEL NUMBER	NATIVE TX POWER	EFFECTIVE TX POWER
	User Adjustable	w/ Beamforming
SC4410X	1mW – 1W	Up to 4W
SC4480X	1mW – 8W	Up to 32W
SC44K0X	1mW – 20W	Up to 80W
WAVEFORM	Mobile Networked MIMO (MN-MIMO)	
ENCRYPTION	DES56 (Standard) AES256 (Optional) FIPS 140-3 Level 2	
DATA RATE	Up to 100Mbps (Adaptive)	
MIMO TECHNIQUES	Spatial Multiplexing, Space-Time Coding, TX/RX Eigen Beamforming	
PUSH-TO-TALK VOICE	G.711/G.722/Opus Codec	
LATENCY	7ms average (20MHz BW)	
SENSITIVITY	-102dBm @ 5MHz BW -108dBm @ 1.25MHz BW (optional)	
FREQUENCY BANDS	Bands from 300MHz to 6GHz available	
CHANNEL BANDWIDTH (MHZ)	20/10/5 (2.5/1.25 Optional)	
SCALABILITY	550+ Nodes	
SPECTRUM DOMINANCE 2.0	MANET Spectrum Analyzer (MAN-SA)	
LPI/LPD & ANTI-JAM	MANET Power Control (MAN-PC)*	
CAPABILITIES	MANET Protected Waveform (MAN-PW)*	
	MANET Interference Cancellation (MAN-IC)*	
	MANET Interference Avoidance (MAN-IA)	
	Wake On Wireless	
*ITAR Controlled	Dual Frequency Link	

MECHANICAL

OPERATING TEMPERATURE	-40° to +85° C
IP RATING	IP67
DIMENSIONS*	139.7 mm x 135.35 mm x 59.69 mm
WEIGHT	1285 grams
MATERIAL	Sea Grade Al 5083; Type 3 hard anodizing

* Without RF Connectors

POWER

INPUT VOLTAGE	9-50 VDC
POWER CONSUMPTION	8W-25W @ 1W TX Power 8W-45W @ 8W TX Power 8W-105W @ 20W TX Power

INTERFACES

RF	4x TNC(f) N(f) Optional
PRIMARY	Marine-grade 37-pin Circular Connector: 1x Ethernet; 1x RS232 1x USB2.0 Host; 1x USB2.0 OTG Push-to-Talk; Multi-position Switch BDA Control; DC Input
STATUS INDICATOR	Bi-Color LED

FREQUENCY BAND OPTIONS

(all bands listed in MHz; dual band configurations available)

BAND	CODE	RANGE	BAND	CODE	RANGE
UHF	034	300 - 380	BROADCAST	206	2025 - 2110
	042	400 - 450	S	225	2200 - 2300
	068	663 - 698		235	2200 - 2500
900 MHz ISM	091	902 - 928	2.4 GHz ISM	245	2400 - 2500
L	137	1350 - 1390	C	467	4400 - 4940
	139	1350 - 1440		470	4400 - 5000
	147	1452 - 1492		485	4700 - 5000
	150	1492 - 1525	PUBLIC SAFETY	512	4940 - 5300
	179	1790 - 1805	5 GHz ISM	520	5150 - 5250
	182	1790 - 1850		580	5725 - 5875

Note: If band of interest is not listed, please contact a sales representative



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