StreamCaster® 4400 *Enhanced*
4x4 MIMO radio

...performance *ENHANCED*

SiLVUS

TECHNOLOGIES

LEADING THE MIMO REVOLUTION

FIPS 140-3™ LEVEL 2 VALIDATED · NIST · NDAA Compliant

STREAMCASTER 4400E

GENERAL

MODEL NUMBER	NATIVE TX POWER User Adjustable	EFFECTIVE TX POWER w/ Beamforming
SC4410	1mW – 1W	Up to 4W
SC4480	1mW – 8W	Up to 32W
SC44K0	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 – LPI/LPD & ANTI-JAM CAPABILITIES

AVAILABLE FEATURES	BETA FEATURES
MANET Spectrum Analyzer (MAN-SA)	Silent Mode (RX Only)
MANET Power Control (MAN-PC)*	True Broadcast
MANET Protected Waveform (MAN-PW)*	Dual Frequency Link (TX/RX)
MANET Interference Cancellation (MAN-IC)*	
MANET Interference Avoidance (MAN-IA)	

*ITAR Controlled

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		485	4700 - 5000
	147	1452 - 1492	PUBLIC SAFETY	512	4940 - 5300
	150	1492 - 1525	5 GHz ISM	520	5150 - 5250
	179	1790 - 1805		580	5725 - 5875
	182	1790 - 1850			

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

www.silvustechnologies.com

MECHANICAL

OPERATING TEMPERATURE	-40° to +85° C
IP RATING	IP68 (Submersible to 20 meters for 30 min)
DIMENSIONS (SHORT FIN / LONG FIN)*	134 x 115 x 46 mm / 134 x 115 x 66 mm
WEIGHT (DUAL BAND) (SHORT FIN / LONG FIN)	861 grams / 1009 grams
MATERIAL	Black Anodized Aluminum

* Without RF Connectors

POWER

INPUT VOLTAGE	9 - 20 VDC
POWER CONSUMPTION	8W - 24W @ 1W TX Power 8W - 43W @ 8W TX Power 8W - 100W @ 20W TX Power

INTERFACES

RF	4x TNC(f) N(f) Optional
PRIMARY	Ruggedized Push/Pull Connector 1x Ethernet, 1x RS232, DC Input
AUXILIARY	Ruggedized Push/Pull Connector 1x USB 2.0 Host, 1x USB 2.0 OTG
PTT (PUSH-TO-TALK)	Ruggedized Breakaway Connector
STATUS INDICATOR	Tri-Color LED
CONTROL INTERFACE	Multi-Position Switch 8 Presets Plus Zeroize Crypto Web-Based StreamScape Network Manager

MECHANICAL - OEM VERSION

DIMENSIONS	109 x 84 x 21 mm
WEIGHT	258 g (288 g - Dual Band)
RF CONNECTORS	SMP (m)