StreamCaster 4400 *Enhanced*
4x4 MIMO radio

...performance *ENHANCED*

SiLVUS
TECHNOLOGIES

LEADING THE MIMO REVOLUTION

STREAMCASTER 4400E

GENERAL

WAVEFORM	Mobile Networked MIMO (MN-MIMO)
ENCRYPTION	DES56 (Standard) AES256 (Optional) FIPS140-2 Level 2 (Suite B)
DATA RATE	Up to 100Mbps (Adaptive)
MIMO TECHNIQUES	Spatial Multiplexing, Space-Time Coding, TX/RX Eigen Beamforming
OUTPUT POWER	1mW - 20W variable (up to 80W effective w/TX 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 400MHz to 6GHz available
CHANNEL BANDWIDTH (MHz)	20/10/5 (2.5/1.25 Optional)
ONBOARD STORAGE	64GB
DIAGNOSTICS	Temperature/Voltage Monitoring Statistics Logging
SPECTRUM DOMINANCE	MANET Spectrum Analyzer (MAN-SA) MANET Interference Avoidance (MAN-IA) MANET Interference Cancellation (MAN-IC)

FREQUENCY BAND OPTIONS

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

BAND	RANGE	BAND	RANGE
UHF-I (042)	400-450	S Band (235)	2200-2500
UHF-II (068)	663-698	2.4GHz ISM (245)	2400-2500
900MHz ISM (091)	902-928	Low C Band (455)	4400-4700
Lower L (137)	1350-1390	Federal C-1 (467)	4400-4940
Extended L (139)	1350-1440	High C Band (485)	4700-5000
Middle L (147)	1452-1492	Public Safety+	4940-5300
Upper L (182)	1790-1850	5.2 GHz ISM (520)	5150-5250
Broadcast B (206)	2025-2110	5.8 GHz ISM (580)	5725-5875
Federal S (225)	2200-2300		

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

MECHANICAL

AMBIENT TEMPERATURE	-40° to +65° C
IP RATING	IP68 (Submersible to 20 meters for 30 min)
DIMENSIONS	133.35 x 114.3 x 45.72 mm without connectors
WEIGHT	1134 grams
MATERIAL	Black Anodized Aluminum
MOUNTING	4-Hole Mounting Pattern (Through-Hole)

POWER

VOLTAGE	9 - 20 VDC
POWER CONSUMPTION	8 W - 100 W @ 20W TX Power 8 W - 43 W @ 8W TX Power 8 W - 24 W @ 1W 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 (Front Panel)
STATUS INDICATOR	Tri-Color LED
CONTROL INTERFACE	Multi-Position Switch 13 presets plus zeroize crypto
	Web-Based StreamScape Network Manager

MECHANICAL - OEM VERSION

(shown below)

DIMENSIONS	108.97 x 83.82 x 20.83 mm
WEIGHT	258 grams
RF CONNECTORS	SMP (m)