WEPTAC A.G.
Weapons & Tactics Alliance Group

MANET SYSTEMS

SINGLE-CASE KIT · MISSION READY

SILVUS 4200 EP OPERATOR KIT

Mobile Radio Kit — Turn-Key High-Bandwidth MANET Node

One transit case, one node — a StreamCaster 4200 Enhanced Plus radio delivered with every peripheral required to put it on the air, and the building block of a resilient high-throughput mesh.

WAG-SIL-COM-1-R

THE SILVUS 4200 EP OPERATOR KIT is a complete, fielded-ready MANET node built around the Silvus StreamCaster® 4200 Enhanced Plus — a 2x2 MIMO radio delivering up to 100 Mbps of adaptive throughput for video, sensor and C2 traffic. What ships is not a bare radio. Antennas, power, Ethernet and serial tethering, PTT hardware and cabling are specified, matched and fitted into a single transit case, so the node that arrives is the node that goes to work.

A radio bought on its own is an integration project: antennas to specify, batteries to source, cables to fabricate, foam to cut, and a build-up window before the first packet moves. The Operator Kit closes that gap at the point of purchase — **one part number, one lead time, one receiving action.** Open the case, power on, and the node is on the network.

ALSO OFFERED · MISSION PLANNING

CLOUDRF — RF PLANNING & COVERAGE

Model coverage over real terrain and clutter before the case ships — site the node, its links and its gateway on data. Web, ATAK and API. Kit or standalone.

CloudRF

CONFIGURATION
1 CASE
Radio · Peripherals · Cabling

SHIPPING WEIGHT
11 LB
20.12 × 12.02 × 8.56 in

RADIO
SC 4200 EP
2x2 MIMO · MN-MIMO waveform

NETWORK ROLE
NODE + GATEWAY
Scales into a multi-node mesh

FIPS 140-3 LEVEL 2 · NDAA COMPLIANT · BLUE UAS · GREEN UAS CERTIFIED · JETDAS AN/PRC-169(V)2 & (V)3

KIT OVERVIEW

MISSION-READY OUT OF THE CASE



CORE CAPABILITIES

TURN-KEY, NOT A BARE RADIO

Antennas, power, cabling and PTT hardware fitted in the case. Nothing to source, fabricate or cut foam for.

HIGH-BANDWIDTH COMM NODE

Up to 100 Mbps adaptive MN-MIMO carries video, sensor feeds and C2 across the mesh at 7 ms average latency.

POINT-TO-POINT AND GATEWAY

A single unit stands alone as a directed link or as a gateway into an existing network.

SCALABLE TO RESILIENT MESH

550+ node scalability — add cases to build self-healing, high-throughput coverage across distributed elements.

Fielded standalone or as one node of many — the same case, the same peripherals, no reconfiguration.

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WHAT THE KIT REMOVES

BARE RADIO VS. KITTED NODE

	RADIO PROCURED ALONE	OPERATOR KIT — WAG-SIL-COM-1-R
Antennas	Band-matched antennas specified and ordered separately	Matched to the ordered band code and fitted in the case
Power	Battery, charger or vehicle power sourced separately	Included — up to 12 hr runtime on a 6.8 Ah battery
Cabling & Tethering	Ethernet, RS232 and USB cabling fabricated or bought piecemeal	Ethernet, serial and USB tethering cables included
PTT Hardware	Breakaway PTT and audio ordered against a separate part number	Included and connector-matched to the radio
Transport	No protection; case bought and foam cut on arrival	Fitted transit case — 11 lb, one-person carry
Procurement	Multiple line items, vendors and lead times to reconcile	One part number, one lead time, one receiving action
Time to Traffic	Build-up, integration and bench check before first use	Open the case, power on, pass traffic

WAG-SIL-COM-1-R R1 · SC4200E+ MANET node with all required peripherals 20.12 × 12.02 × 8.56 in **TOTAL 11 LB**

RADIO SPECIFICATIONS — SILVUS STREAMCASTER® 4200 EP

2X2 MIMO · JETDAS AN/PRC-169(V)2 & (V)3

GENERAL

Native TX Power (SC42A0)	1 mW – 10 W · up to 20 W w/ beamforming
Waveform	Mobile Networked MIMO (MN-MIMO)
Data Rate	Up to 100 Mbps (adaptive)
Latency	7 ms average (20 MHz BW)
Sensitivity	–99 dBm @ 5 MHz BW · –105 dBm @ 1.25 MHz (opt.)
Channel Bandwidth	20 / 10 / 5 MHz (2.5 / 1.25 optional)
Frequency Coverage	Bands from 300 MHz to 6 GHz
MIMO Techniques	Spatial multiplexing, space-time coding, TX/RX eigen beamforming
Scalability	550+ nodes
Encryption	DES56 standard · AES256 optional · FIPS 140-3 Level 2
Push-to-Talk Voice	G.711 / G.722 / Opus codec · RoIP tethering, dual PTT
Diagnostics	Temperature / voltage monitoring, statistics logging

POWER

Input Voltage	9 – 20 VDC
Power Consumption	5 – 16 W @ 1 W TX · 5 – 24 W @ 4 W TX 5 – 48 W @ 10 W TX
Battery Life	Up to 12 hours (6.8 Ah battery)
Power Options	Twist-lock battery (BB) or front panel (EB)

MECHANICAL & ENVIRONMENTAL

Operating Temperature	–40° to +85° C
IP Rating	IP68 · submersible to 20 m for 30 min
Radio Dimensions	101.6 × 66.8 × 38.35 mm (w/o RF connectors)
Radio Weight	425 grams
Material	Black anodized aluminum

INTERFACES

RF	2× TNC(f) · N(f) optional
Primary	Ruggedized push/pull — 1× Ethernet, 1× RS232, DC input (EB only)
Auxiliary	Ruggedized push/pull — 1× USB 2.0 host, 1× USB 2.0 OTG
Push-to-Talk	Ruggedized breakaway connector
Status Indicator	Tri-color LED
Control Interface	Multi-position switch · 13 presets plus zeroize crypto
Management	Web-based StreamScape Network Manager

SPECTRUM DOMINANCE 2.0

MANET Spectrum Analyzer (MAN-SA) · MANET Power Control (MAN-PC)* · MANET Interference Cancellation (MAN-IC)* · MANET Interference Avoidance (MAN-IA) · MANET Protected Waveform (MAN-PW)* · Wake on Wireless · Dual Frequency Link

LPI/LPD, anti-jam and advanced threat protection. *ITAR controlled.

FREQUENCY BAND OPTIONS

ALL BANDS IN MHZ · DUAL-BAND AVAILABLE

BAND	CODE	MHZ	BAND	CODE	MHZ	BAND	CODE	MHZ	BAND	CODE	MHZ
UHF	034	300 – 380	**L (cont.)**	139	1350 – 1440	**Broadcast**	206	2025 – 2110	**C (cont.)**	470	4400 – 5000
	042	400 – 450		147	1452 – 1492	**S**	225	2200 – 2300	**Public Safety**	512	4940 – 5300
	068	663 – 698		150	1492 – 1525		235	2200 – 2500	**5 GHz ISM**	520	5150 – 5250
900 MHz ISM	091	902 – 928		179	1790 – 1805	**2.4 GHz ISM**	245	2400 – 2500		580	5725 – 5875
L	137	1350 – 1390		182	1790 – 1850	**C**	467	4400 – 4940			

Radio specifications are manufacturer-published data for the Silvus StreamCaster® 4200 Enhanced Plus and are subject to change without notice. Features marked * are ITAR controlled; FCC authorization status varies by configuration and exported devices are subject to the laws of the destination country. StreamCaster® and StreamScape are marks of Silvus Technologies.

REQUEST A QUOTE OR A CAPABILITY BRIEF

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ALSO OFFERED

CloudRF RF planning offered with this kit — model coverage before it ships.

CONTACT OUR SALES TEAM