WEPTAC A.G.
Weapons & Tactics Alliance Group

MANET SYSTEMS

TWO-CASE KIT · MISSION READY

SILVUS 4200 EP SQUAD KIT

Squad Mesh Kit — Turn-Key Four-Node High-Bandwidth MANET Network

Two transit cases, four nodes — four StreamCaster 4200 Enhanced Plus radios delivered with every peripheral and upgraded high-gain omni antennas required to stand up a resilient mesh on arrival.

WAG-SIL-COM-4-R

THE SILVUS 4200 EP SQUAD KIT is a complete, fielded-ready four-node MANET network 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 four bare radios. Four matched sets of upgraded high-gain omni antennas, power, Ethernet and serial tethering, PTT hardware and cabling are fitted across two transit cases, so the network that arrives is the network that goes to work.

Four radios bought on their own are four integration projects: antennas to specify, batteries to source, cables to fabricate, foam to cut — then a build-up window before the first packet moves, multiplied by four. The Squad Kit closes that gap at the point of purchase — **one part number, one lead time, one receiving action.** Open the cases, power on, and the mesh forms.

CONFIGURATION
2 CASES
4 Radios · Antennas · Peripherals

SHIPPING WEIGHT
56 LB
Case A 34 lb · Case B 22 lb

RADIOS
4× SC 4200 EP
2x2 MIMO · MN-MIMO waveform

NETWORK ROLE
4-NODE MESH
User, relay or gateway at every node

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



ALSO OFFERED · MISSION PLANNING

CLOUDRF — RF PLANNING & COVERAGE

Model mesh coverage over real terrain and clutter before the cases ship — site nodes, relays and gateways on data. Web, ATAK and API. Kit or standalone.

CloudRF

CORE CAPABILITIES

FOUR NODES, ONE PART NUMBER

Four radios and four complete peripheral sets fitted across two cases. Nothing to source, fabricate or cut foam for.

MESH FORMS OUT OF THE CASES

Four nodes stand up an immediate self-healing, high-throughput network — no bench build-up, no per-node integration.

UPGRADED HIGH-GAIN OMNI ANTENNAS

Extended range, improved link reliability and full 360-degree coverage at every node, with multi-hop range extension.

USER, RELAY OR GATEWAY

Every node fills any role — mobile comms and high-throughput video and sensor exchange across distributed elements.

Field all four as a squad mesh, or split them across elements — the same cases, the same peripherals, no reconfiguration.

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WHAT THE KIT REMOVES

BARE RADIO VS. KITTED NODE

	FOUR RADIOS PROCURED ALONE	SQUAD KIT — WAG-SIL-COM-4-R
Antennas	Four antenna sets specified, sourced and ordered separately	Four upgraded high-gain omni sets, matched to band code
Power	Batteries and chargers sourced and qualified for every node	Included for all four — up to 12 hr on 6.8 Ah batteries
Cabling & Tethering	Ethernet, RS232 and USB cabling fabricated four times over	Four tethering sets included and connector-matched
PTT Hardware	Breakaway PTT and audio ordered per node, separate part number	Included at every node
Transport	No protection; cases bought and foam cut for a four-node fill	Two fitted transit cases — 56 lb total
Procurement	Line items multiplied by four, across vendors and lead times	One part number, one lead time, one receiving action
Time to Mesh	Per-node build-up and bench check before the network forms	Open the cases, power on, the mesh forms

WAG-SIL-COM-4-R	Case A · 4× SC 4200 EP nodes with all required peripherals	23.43 × 13.52 × 10.57 in	**34 lb**
	Case B · Upgraded high-gain omni-directional antenna set	23.13 × 18.8 × 13.25 in	**22 lb**
		TOTAL SHIPPING WEIGHT	**56 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 mesh coverage before it ships.

CONTACT OUR SALES TEAM