KÄGWERKS®
NEVER A FAIR FIGHT

SiLVUS TECHNOLOGIES

D.O.C.[K]™ STREAMCASTER
TACTICAL NETWORKING SYSTEM

DOCK ULTRA SL4210P
Achieve Decision Dominance at the Tactical Edge

Designed for the Team Leader and individual warfighter with advanced MANET mesh networking capabilities, on-board computing and A.I. processing capabilities, DOCK ULTRA SL4210P maximizes the operational effectiveness of the Universally Connected Warfighter.

Integrated StreamCaster MANET radio delivers up to 1 Watt output power and 100 Mbps throughput for high-fidelity video, voice and IP data. Featuring built-in Intra-Soldier Wireless & Nett Warrior connectivity, together with Silvus' proprietary MN-MIMO waveform – DOCK ULTRA SL4210P seamlessly scales from tactical Personal Area Network to wide-area mesh networks capable of connecting hundreds of nodes in any operational environment.

Direct connection to Samsung's latest S23TE EUD provides the power to run ATAK and advanced plug-ins for increased situational awareness and mission planning.

Powerful on-board NVIDIA Jetson NANO AI module enables DOCK ULTRA SL4210P to create a common operational picture that increases survivability and soldier lethality.

Available access to Spectrum Dominance expansive suite of LPI/LPD and Anti-Jamming resiliency capabilities provides secure and protected comms in congested and EW contested environments.

With a reduced SWaP profile, DOCK ULTRA SL4210P features streamlined cabling and unified power, reducing operator load-out for increased combat effectiveness.

APPLICATIONS

Defense
High Bandwidth Networking: On-the-Move, At-the-Halt, Dismounted Operations

Law Enforcement/Public Safety
Tactical Bubble Mesh Network Connectivity: Sensors, Vehicles, EOD & Security Operations

Unmanned Systems
C2 & Comms Relay – Connecting Multiple Operators & Platforms

OPERATOR CENTRIC DESIGN

Compact, Flexible & Modular Design reduces operator load-out while increasing Mobility & Mission Effectiveness

- Remove or replace Radio & EUD with a flick of the Quick Release Lever
- Streamlined Cabling & Unified Power – 36% reduction in Kit Failure Points
- Multiple Connector Option – Plug & Play Accessory Compatibility

POWERFULLY ADVANCED NETWORKING PERFORMANCE

Seamlessly scale from tactical Personal Area Network to Wide-area Networks capable of connecting hundreds of nodes

- Integrated StreamCaster MANET Radio – 1W native, up to 2W effective output power
- High Bandwidth Video, Voice & IP Data – Up to 100 Mbps Data Rate
- MN-MIMO Waveform – Operationally proven to connect 550+ nodes

BUILT FOR THE UNIVERSALLY CONNECTED WARFIGHTER

Integrated Samsung S23TE provides Mission-Ready Mobility and powerful On-Board Processing with Advanced Security Features
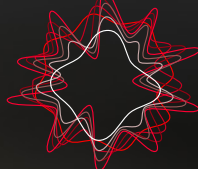
- Intra-Soldier Wireless – Instantly access networked devices
- ATAK – Enhanced situational awareness, geospatial, Blue Force Tracking, sensor & cursor on target intelligence. Access specialized ATAK plug-ins including Silvus' advanced radio & configurable PTT settings
- Nett Warrior Connected – Instant access to networked devices & soldier-worn peripherals
- Achieve C2 Interoperability – Directly connect to unmanned systems & sensors to expedite sensor-to-shooter capabilities and maximize lethality

SOLDIER WORN AI

Powerful On-Board NVIDIA Jetson NANO AI CPU provides flexible Edge Computing. Create a Common Operating Picture increasing Lethality and Survivability

- Experience real-time language recognition and translation, facial recognition and targeting for HVTs
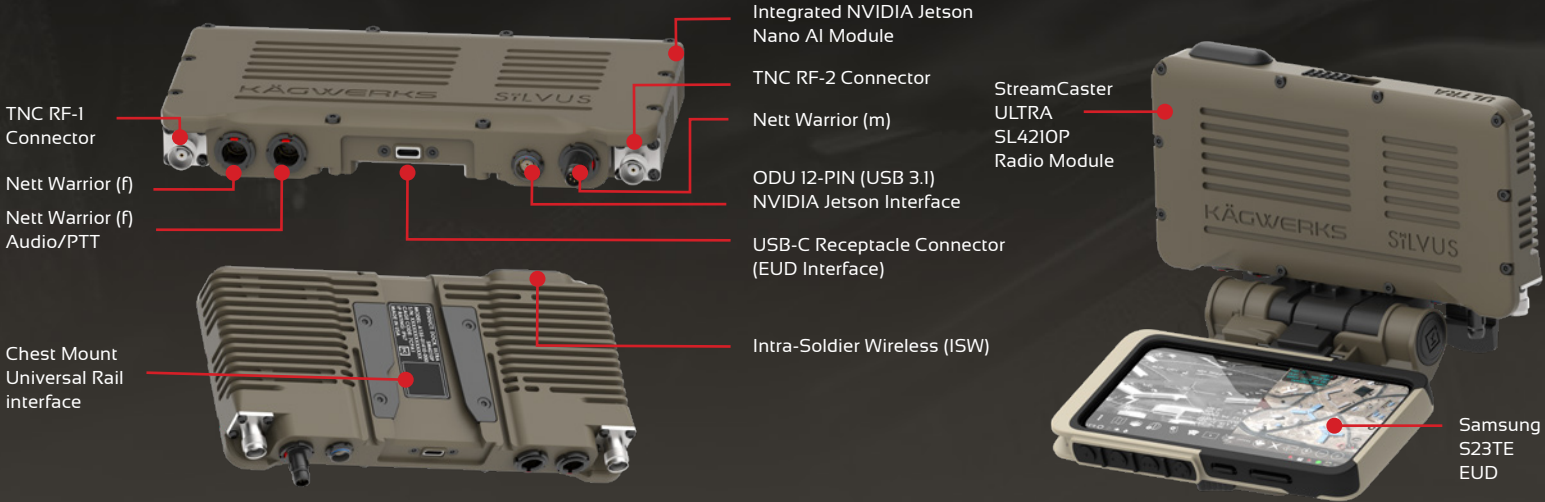- Enhanced UAV control with AI powered image recognition, ATAK spotting and dynamic typography mapping

ACHIEVE SPECTRUM DOMINANCE

Achieve RF Spectrum Overmatch with access to an expansive suite of LPI/LPD and Anti-Jamming capabilities

- Secure and Protected Comms without Sacrificing Performance
- Designed to thrive in Congested & Contested environments
- Achieve mission objectives even under electronic attack

Removable ULTRA SL4210P MANET Radio Module Module

Cerakote aluminum housing for heat sinking. Ruggedized IP67 packaged solution; MIL-STD 810H environmental testing standard

DOCK Chest Mount Assembly

Labels (Radio Module):
- Integrated NVIDIA Jetson Nano AI Module
- TNC RF-2 Connector
- Nett Warrior (m)
- ODU 12-PIN (USB 3.1) NVIDIA Jetson Interface
- USB-C Receptacle Connector (EUD Interface)
- TNC RF-1 Connector
- Nett Warrior (f)
- Nett Warrior (f) Audio/PTT
- Chest Mount Universal Rail interface
- Intra-Soldier Wireless (ISW)
- StreamCaster ULTRA SL4210P Radio Module
- Samsung S23TE EUD

Labels (Chest Mount Assembly):
- Radio Module Quick Release Lever
- Molle Attachment Clips interface with Plate Carrier
- Mission Module, Position #1
- Constant Torque Hinge with Locking Clutch
- Field Replaceable USB-C Cartridge Assembly
- EUD Guide Rails, Position #2
- EUD Quick Release Lever
- ISW Antenna Radome
- Radio Power/NVIDIA Status Indicator with Sliding Cover
- Active USB Programmable Buttons (4X)
- Chest Mount Assembly with Integrated USB-C Cartridge

DOCK ULTRA SL4210P

TX POWER	1mW — 1 W (2W Effective, thanks to Eigen-Beamforming)
WAVEFORM	MN-MIMO
ENCRYPTION	DES56(Standard); AES256(Optional); FIPS 140-3 Level 2
DATA RATE	Up to 100 Mbps
FREQ. BANDS (MHz)	L (1350-1440) S (2200-2500) L&S (1350-1440) + (2200-2500)
CHANNEL BANDWIDTH (MHz)	20/10/5 (2.5/1.25 Optional)
SCALABILITY	550+ Nodes
SPECTRUM DOMINANCE LPI/LPD & ANTI-JAM CAPABILITIES	MANET Spectrum Analyzer (MAN-SA)
	MANET Power Control (MAN-PC)*
	MANET Protected Waveform (MAN-PW)*
	MANET Interference Avoidance (MAN-IA)
*ITAR CONTROLLED	MANET Interference Cancellation (MAN-IC)*

INTEGRATED NVIDIA JETSON NANO AI MODULE (8GB)

AI PERFORMANCE	Up to 40 (Sparse) INT8 TOPs and 20 (Dense) INT8 TOPs
AMPERE GPU	1024 NVIDIA CUDA Cores; 32 Tensor Cores
ARM CORTEX A78AE CPU	Six-core (ON 8GB and ON 4GB); Cortex A78AE ARMv8.2 (64-bit) hetrogeneous multi-processing (HMP) CPU architecture; 2x clusters (1x 4-core cluster + 128 KB L1 + 256KB L2 per core + 2MB L3) + 1x 2-core cluster (128 KB L1 + 256KB L2 per core + 2MB L3); System Cache: 4MB (shared across all clusters)
MEMORY	8GB 128-bit LPDDR5 DRAM
OPERATING REQUIREMENTS	
TEMPERATURE RANGE	-25°C - 90°C
POWER INPUT	5V-20V
MODES	7W; 15W

Samsung S23TE (Sold Separately)

MODULAR DESIGN	Future-forward casing solution design accommodates current & next generation EUD
CASING SOLUTION	4 Programmable USB Buttons, instantly access key ATAK functions
ENVIRONMENTAL	MIL-STD 810H
PROCESSOR	Qualcomm Snapdragon 8 Gen 2 with 64 Bit Octa-core 3.36 GHz processor
DISPLAY	6.1" Dynamic AMOLED 4K
OS	Android 13 with One UI 5.1 and Knox 3.9 Security
CAMERA	50MP; 3x Optical Zoom; 8K Video
STORAGE	256GB

MECHANICAL

SIZE	193x53x130mm; 7.55"x2"x5.11"
WEIGHT	48oz; 3lb
POWER/INPUT VOLTAGE	10-17 VDC
PORTS/CONNECTORS	
POWER & DATA	Glenair 6-Pin NW(m)
AUDIO/PTT	Glenair 6-Pin NW(f)
USB/AUX	2X ODU 12-Pin (blue)
EUD	USB-C(f)
RF	2X TNC(f)