

SILVUS

TECHNOLOGIES



StreamCaster LITE 5200 SL5200 OEM Module

Redefining C2 & Comms Mesh Networking at the Tactical Edge

The Power To Perform

Delivering powerful MANET radio performance for today's leading-edge unmanned systems, the SL5200 unifies C2, sensor and telemetry data with communications relay capabilities in one streamlined OEM module. With up to 2 Watts output power and 100 Mbps data rate, the SL5200 provides class-leading power, high-bandwidth throughput and tactical mobility.

Network Connectivity For Multi-Domain Operations

At the heart of the SL5200 is Silvus' battle-proven MN-MIMO waveform, capable of linking hundreds of nodes in any operational environment. Connect multiple UAVs, UGVs, USVs, sensors, personnel and manned/unmanned platforms through one massively scalable mesh network that's natively compatible with 4000-series StreamCaster MANET radios.

Compact Size – Powerful Performance

Featuring an ultra-low SWaP profile and multiple I/O interface options, the SL5200 is designed for seamless integration into tactical unmanned systems and other Size, Weight, and Power (SWaP) constrained embedded applications. Experience Group 2 UAV level performance in a compact form-factor engineered for Group 1 platforms.

Achieve Spectrum Dominance

Available access to Spectrum Dominance – an expansive suite of LPI/LPD and Anti-Jamming capabilities provides secure and protected communications in congested and contested environments without sacrificing performance.

Learn More



StreamCaster LITE 5200 – SL5200 OEM Module

Smaller, Lighter & More Power Efficient with Increased Performance

KEY DISTINCTIONS

- **Powerful Performance** 2W Native, up to 4W Effective TX Power
Up to 100 Mbps Data Rate, 550+ Node Scalability
- **Ultra Low SWaP Profile** 60% Smaller, 50% Lighter (compared to SL4200 OEM module)
Seamless Integration into Unmanned/Manned platforms
- **Advanced Encryption** AES256; FIPS 140-3
- **I/O Interfaces** Ethernet, USB, RS232

SPECIFICATIONS

GENERAL

TRANSMIT POWER	NATIVE TX POWER User Adjustable 1mW - 2W	EFFECTIVE TX POWER w/Beamforming Up to 4W
WAVEFORM	Mobile Networked MIMO (MN-MIMO)	
ENCRYPTION	DES56 (Standard) AES256 (Optional) FIPS 140-3	
DATA RATE	Up to 100 Mbps (adaptive)	
MIMO TECHNIQUES	Spatial Multiplexing, Space-Time Coding TX/RX Eigen Beamforming	
LATENCY	7ms Average (20MHz BW)	
SENSITIVITY	-101dBm @ 5MHz BW -107dBm @ 1.25MHz BW (Optional)	
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) MANET Interference Cancellation (MAN-IC)*	
*ITAR-Controlled		

MECHANICAL

OPERATING TEMPERATURE	-40°C to +85°C
DIMENSIONS	63.5 x 44.5 x 10.4 mm
WEIGHT	26 g (Bare PCB) 52 g (With Shields)
MATERIAL	Aluminum 6061-T6

POWER

INPUT VOLTAGE	9-32 VDC
POWER CONSUMPTION	4W-13W @ 2W TX Power

INTERFACES

RF	2x SMPM(m)
PERIPHERALS	Ethernet, RS232, USB

FREQUENCY BANDS OPTIONS

(all bands listed in MHz) (additional bands based on market demand)

BAND	CODE	RANGE
L	139	1350-1440
S	235	2200-2500
L&S	139235	1350-1440 + 2200-2500

