

STREAMCASTER TRINITY

DUAL BAND MIMO TRANSCEIVER ARRAY



Rapidly Deployable High Performance Mesh Network

Tactical Operations | Air-to-Ground Link | Fixed Infrastructure

Delivering high bandwidth, long-range communications in any environment, the StreamCaster TRINITY Dual Band MIMO Transceiver Array combines the performance of dual-band (S/C) StreamCaster MANET radios with a high-gain antenna array that delivers 360° of coverage for air and ground applications. Powered by Silvus' MN-MIMO waveform, StreamCaster TRINITY provides high data rate throughput at extended (50+ km) link range. Featuring flexible mounting options, StreamCaster TRINITY enables users to create rapidly deployable mesh networks for mobile, remote or fixed site operations.

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LEADING THE MIMO REVOLUTION

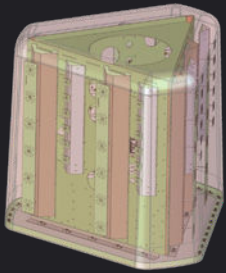
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Performance Flexibility to Match Your Mission

Featuring a unique high-gain Trilobe design, each of StreamCaster TRINITY's three 12 dBi sector antennas provide 120° of coverage, extending the range of multiple manned/unmanned air & ground assets in any direction. Use the three sectors all in the same band to achieve 360° of coverage, or in different S and C frequency bands to support individual sectors.

← 32" / 812mm →



↑ 25" / 635mm ↓

KEY FEATURES:

- Unique Trilobe Design – Built-in Dual S/C Band
- 12 dBi High-Gain Antennas – Achieve 360° of Coverage
- Network Flexibility – Independent 120° Sectors support Individual Networks
- Integrated SC4400E MANET Radios – Up to 20W output power per sector
- 50km+ Link Range – Create an operationally unified mesh network
- Rapidly Deployable (<60 min.) – Dual Case Packout
- Simplified Operations – Transportable to Fixed Site mounting options

Applications:



Defense

Command Center, At-the-Halt, Communications Relay



Law Enforcement

Extend the reach of the Tactical Bubble Mesh Network



Public Safety & Event Security

Disaster Response and Security Communications Network



Unmanned Systems & Broadcasting

C2 & Comms Relay – Connecting Multiple Operators & Platforms



Transceiver Array

Gain (dBi)	12
Horizontal Beamwidth	360°; 120° Per Sector
Vertical Beamwidth	11°
Polarization	Dual Slant (45°)
Link Distance	50+ km
Deployed Height	15 m
	Stationary; Telescoping Mast
Size	25"x28"x32"
Weight	80 lb.
Power Supply	AC or DC
Input Voltage Range	2IV to 50V



StreamCaster 4400E

Radio Type	4x4 MIMO
Waveform	MN-MIMO
Output Power	Up to 20 Watts (up to 80 Watt effective w/TX Beamforming)
Data Rate	Up to 100 Mbps
Frequency Bands	Dual S/C Bands Built-In S-Band: 2200-2500 MHz C-Band: 4400-4940 MHz
Channel Bandwidth	20/10/5 MHz (2.5/1.25 Optional)

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