

U.S. Army – Program of Record Integrated Antenna & Radio Systems

AIRS

Antenna Integrated Radio System

AN/TSC-248(v)

StreamCaster PRISM

Precision Integrated Sectorized MIMO

Rapidly Deployable, EW Resilient Communications Mesh Networks



Integrated Battle Command System



Sustainment Transport System (LOS)

High Bandwidth | Long-Range Connectivity

Silvus' AIRS and StreamCaster PRISM – Rapidly deployable, integrated antenna and radio systems combine the performance of StreamCaster dual-band (S/C) MANET radios (AN/PRC-169v(1)) with high-gain MIMO antennas to deliver up to 360° coverage with high data rate throughput and extended link range. Powered by Silvus' MN-MIMO waveform, these robust and scalable mesh network connectivity solutions feature Spectrum Dominance advanced Interference Avoidance and Cancellation capabilities, enabling operations in congested and contested environments.

Dedicated to Achieving the Army's Unified Network Modernization Objectives

U.S. Army Program Notables

- ✦ IBCS (POR-AIRS) – Rapidly Deployable Battlefield Communication Mesh Network. Fusing of Multi-Service Sensors to Multi-Service Weapons
- ✦ STS (LOS) (POR-PRISM) – High Bandwidth Long-Range Connectivity for Line-of-Sight Logistics Data Exchange. Highly Mobile, EW Resilient Comms, supporting Contested Logistic Sustainment Operations

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Army Program: IBCS

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Army Program: STS (LOS)



Distinctions

- Command Shelter & Remote Communications Relay Station
- Unique Tri-Lobe Antenna Array
- 360° Coverage; 120° Sectors
- Rapid Deployable < 60 Min.



Distinctions

- Point-to-Point, Point-to-Multipoint Mesh Network
- Unique Toolless Design
- 360° Coverage; 50° Sectors
- Rapid Deployable < 30 Min.

General Specifications

JETDAS MODEL

Frequency Bands

Horizontal Beamwidth

Dimensions (HxWxD)

Weight

AIRS

S/C

360°

25"x25"x32"

80 lb.

StreamCaster PRISM

AN/TSC - 248(v)

S/C

50°

35.4"x21.7"x2.5"

20 lb.

StreamCaster 4400 Enhanced SC4400E MANET Radio

At the heart of AIRS and PRISM is the StreamCaster 4400 Enhanced MANET radio, purpose-built for maximum performance in fixed infrastructure, vehicular, long-range and airborne applications.



Distinctions

- 4x4 MIMO Software-Defined Radio
- 20 Watts Native TX Power (80W Effective w/Eigen Beamforming)
- Single/Dual Band (300 MHz – 6 GHz)
- 20/10/5 MHz Bandwidth (2.5/1.5 Option)
- Up to 100 Mbps Data Rate

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