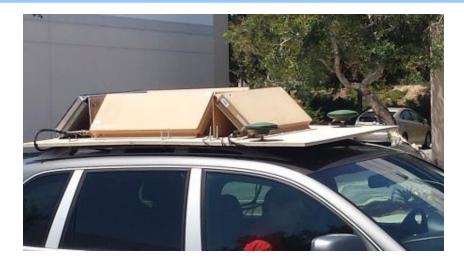
Broadband Distributed Aperture SATCOM-On-The-Move (SOTM) Terminal







Sponsor: US Army/RDECOM/CERDEC/S&TCD Prime Contractor: Alico Systems Inc; Torrance, CA Tel: (562) 436-1510; Email: products@alicosystems.com

[2013-05]

SYSTEMS, INC.

Broadband Distributed Aperture SATCOM-On-The-Move (SOTM) Terminal

Antenna Specifications

- SATCOM On the Move Operation
- Voice, data and streaming video capable
- Full Duplex Data Rate Performance
 - Receive 128 to 512 Kbps
 - Transmit 256 to 1024 Kbps
- All electronic phased array beam steering
 - Autonomous operation
 - Built-in beam pointing and satellite tracking capability at 100 Hz
- Full Hemispheric Coverage
 - Elevation 0⁰ (horizon) to 90⁰
 (zenith)
 - Azimuth 0^o to 360^o Continuous
- Power
 - 700 W
 - 115 VAC or 28 VDC
- Weight
 - 150 lbs

Interface Specifications

- Frequency
 - X-band Receive 7250 to 7750 MHz
 - X-band Transmit 7900 to 8400 MHz
- Satellite Constellation Options
 - WGS (US DoD)
 - XTAR (US Loral)
 - SpainSat (Spain)
 - Skynet (UK Paradigm)
- Compatible IP Modems
 - L3 MPM-1000/2000
 - iDirect e850mp
 - ViaSat Linkway
 - Hughes
 - Others
- Modem interface
 - L-band 950-1450 MHz
 - Modem agnostic

Benefits

- Zero profile on top of vehicle
 - Stealthier antenna design
- No blockage due to gun turret and cargo on top of vehicle
- No blockage due to vehicle heading
- No moving parts
- No gimbal lock or key hole issues
- Supports fast mover operation
- Higher reliability
- No field service required
- Continuous operation
 - 100% duty cycle
 - Soft handoffs between antenna panels
- US Army SBIR Project
 - TRL 6 Satellite-On-the-Move September 2015

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