

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



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Antenna Specifications	Interface Specifications	Benefits
<ul style="list-style-type: none"> • SATCOM On the Move Operation • Voice, data and streaming video capable • Full Duplex Data Rate Performance <ul style="list-style-type: none"> – Receive 128 to 512 Kbps – Transmit 256 to 1024 Kbps • All electronic phased array beam steering <ul style="list-style-type: none"> – Autonomous operation – Built-in beam pointing and satellite tracking capability at 100 Hz • Full Hemispheric Coverage <ul style="list-style-type: none"> – Elevation 0° (horizon) to 90° (zenith) – Azimuth 0° to 360° Continuous • Power <ul style="list-style-type: none"> – 700 W – 115 VAC or 28 VDC • Weight <ul style="list-style-type: none"> – 150 lbs 	<ul style="list-style-type: none"> • Frequency <ul style="list-style-type: none"> – X-band Receive 7250 to 7750 MHz – X-band Transmit 7900 to 8400 MHz • Satellite Constellation Options <ul style="list-style-type: none"> – WGS (US DoD) – XTAR (US Loral) – SpainSat (Spain) – Skynet (UK Paradigm) • Compatible IP Modems <ul style="list-style-type: none"> – L3 MPM-1000/2000 – iDirect e850mp – ViaSat Linkway – Hughes – Others • Modem interface <ul style="list-style-type: none"> – L-band 950-1450 MHz – Modem agnostic 	<ul style="list-style-type: none"> • Zero profile on top of vehicle <ul style="list-style-type: none"> – 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 <ul style="list-style-type: none"> – 100% duty cycle – Soft handoffs between antenna panels • US Army SBIR Project <ul style="list-style-type: none"> – TRL 6 Satellite-On-the-Move September 2015

Sponsor: US Army/RDECOM/CERDEC/S&TCD

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