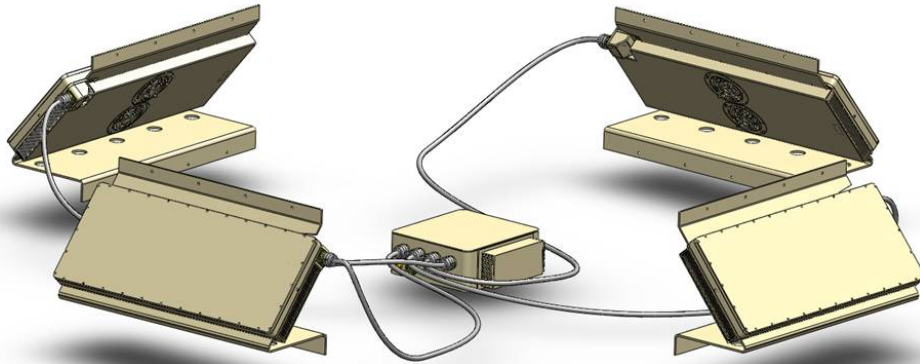


# Broadband Distributed Aperture SATCOM-On-The-Move (SOTM) Terminal



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Antenna Specifications	Interface Specifications	Benefits
<ul style="list-style-type: none"> <li>• SATCOM On the Move Operation</li> <li>• Voice, data and streaming video capable</li> <li>• Full Duplex Data Rate Performance               <ul style="list-style-type: none"> <li>– Receive 256 to 1024 Kbps</li> <li>– Transmit 512 to 1536 Kbps</li> </ul> </li> <li>• All electronic phased array beam steering               <ul style="list-style-type: none"> <li>– Autonomous operation</li> <li>– Built-in beam pointing and satellite tracking capability at 100 Hz</li> </ul> </li> <li>• Full Hemispheric Coverage               <ul style="list-style-type: none"> <li>– Elevation 0<sup>0</sup> (horizon) to 90<sup>0</sup> (zenith)</li> <li>– Azimuth 0<sup>0</sup> to 360<sup>0</sup> Continuous</li> </ul> </li> <li>• Power               <ul style="list-style-type: none"> <li>– 700 W</li> <li>– 115 VAC or 28 VDC</li> </ul> </li> <li>• Weight               <ul style="list-style-type: none"> <li>– 150 lbs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Frequency               <ul style="list-style-type: none"> <li>– X-band Receive 7250 to 7700 MHz</li> <li>– X-band Transmit 7975 to 8400 MHz</li> </ul> </li> <li>• Satellite Constellation Options               <ul style="list-style-type: none"> <li>– WGS (US DoD)</li> <li>– XTAR (US Loral)</li> <li>– SpainSat (Spain)</li> <li>– Skynet (UK Paradigm)</li> </ul> </li> <li>• Compatible IP Modems               <ul style="list-style-type: none"> <li>– L3 MPM-1000/2000</li> <li>– iDirect e850mp</li> <li>– ViaSat Linkway</li> <li>– Hughes</li> <li>– Others, to be specified</li> </ul> </li> <li>• Modem interface               <ul style="list-style-type: none"> <li>– L-band 950-1450 MHz</li> <li>– Modem agnostic</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Zero profile on top of vehicle               <ul style="list-style-type: none"> <li>– Stealthier antenna design</li> </ul> </li> <li>• No blockage due to gun turret and cargo on top of vehicle</li> <li>• No blockage due to vehicle heading</li> <li>• No moving parts</li> <li>• No gimbal lock or key hole issues</li> <li>• Supports fast mover operation</li> <li>• Higher reliability</li> <li>• No field service required</li> <li>• Continuous operation               <ul style="list-style-type: none"> <li>– 100% duty cycle</li> <li>– Soft handoffs between antenna panels</li> </ul> </li> <li>• US Army SBIR Project               <ul style="list-style-type: none"> <li>– At-the-Quick-Halt Satellite Tests FY 2012 (completed)</li> <li>– TRL 6 Satellite-On-the-Move tests planned FY 2013</li> </ul> </li> </ul>