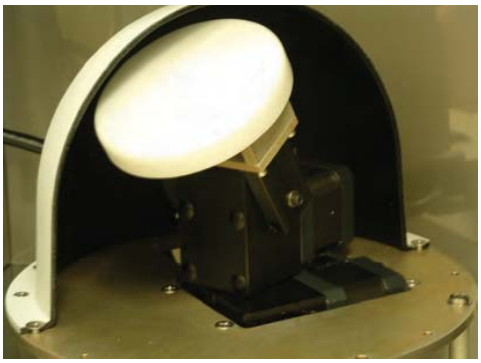
TECOM
smiths microwave

5-Inch Tactical Data Link System for Fixed or On-the-Move Applications



STANDARD FEATURES:

- **14.4–15.35 GHz Frequency Coverage**
- **19.0 dBic Mid-Band Gain**
- **RHCP or LHCP Polarization**
- **L-, C-, X- & Ka-Band Variants Available**
- **Rugged, High-Dynamic 2-Axis Positioner**
- **Built in ACU, Servo & Power Supply**
- **RS-232, RS-485, Fiber & Ethernet Controllable**
- **Lightweight, Rigid Structure, Less than 7 lbs.**
- **Manpack Portable, Tripod Mount Available**

APPLICATIONS:

- **Tactical Common Datalink**
- **Communications – Fixed & On-the-Move**
- **Border Surveillance**
- **Signal Intelligence**
- **Airborne Data Relay**

DATA LINK

TECOM has a diverse line of rugged, high-accuracy directional narrowband systems that provide high data-rate Tactical Common Datalink (TCDL) communications for fixed-ground applications and on-the-move applications such as those encountered on military aircrafts, naval vessels and mobile ground vehicles. Our standard product line includes antenna system products that are scalable in frequency, and offer superior performance for mission requirements in the L, S, C, X, Ku and Ka frequency bands.

TECOM's data link product line delivers high data-rate communications capabilities to current operational forces while providing a solid architectural baseline for the migration of these systems to support future Homeland Security objectives and important military programs such as Future Combat Systems (FCS) and Warfighter Information Network–Tactical (WIN-T).

TECOM's 5-inch TCDL antenna system operates from 14.4-15.35 GHz in Ku-Band. The antenna system includes a 5-inch planar array feed assembly, a 2-axis, low-profile gimbal, integrated Antenna Control Unit (ACU), servo amplifier, and power supply module. The ACU, servo amplifiers and power supply are modular components integrated within the available antenna volume. An antenna radome and cables are provided with the antenna system, and a transit case can be supplied to protect these assemblies while in transit to the operations site.

TECOM's microprocessor-based ACU is designed to provide cost-effective control of the antenna positioner assembly. The integrated controller can be operated over an RS-232, RS-485, Ethernet or fiber optic interface. The Windows-based software provides a programmable man-machine inter face and allows for complete control of all antenna system functionality and operational modes that include standby, point, step, slew, jog, sector scan and program track.

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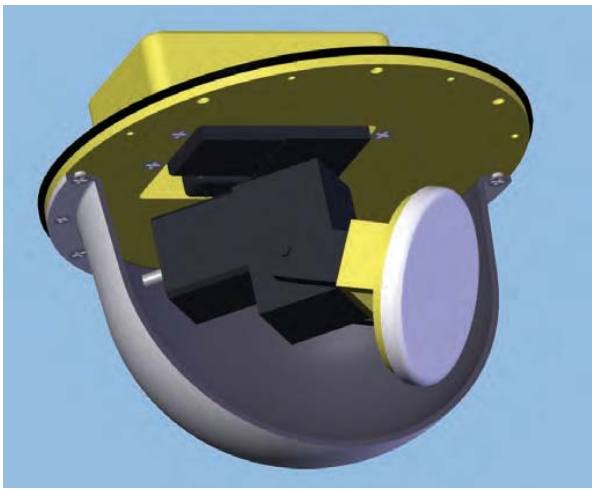

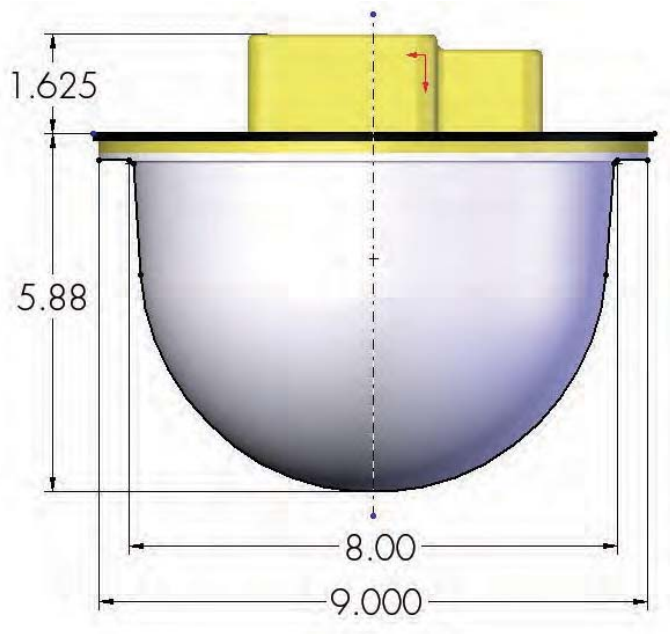

Antenna Performance	
Midband	19.1 dBic
Band Edges	16.5 dBic
Beamwidth (3dB)	15 deg
Axial Ratio	< 2.5 dB
Sidelobes	< -17 dB
Motor Input Voltage (Unregulated)	8-30 VDC
Power Consumption:	
Full-Power Mode	13W continuous peak
Low-Power Mode	6W continuous peak
Holding Power off mode	1W continuous peak
Dynamic Capability:	
Velocity	60°/sec
Acceleration	60°/sec^2
El/Az Unit:	
Weight	3 lbs.
Dimensions	3" w x 5.13" h x 4.25" d
Controller:	
Weight	8 ozs.
Dimensions	3.25" w x 4.5" l x 1.25" h

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