

HM200 Modem

The Hughes HM200 Modem for Communications-On-The-Move (COTM) is an integrated defense-class solution providing a constant and reliable feed of critical real-time information to support any mission. Ideal for Beyond-Line-of-Sight (BLoS) connectivity requirements, it is powered by the innovative Hughes HM200 modem and antenna that connect the mobile platform to the satellite and then distributes the feed to one or multiple ground stations.

Designed with an open architecture, this modem is a Commercial off-the-Shelf (COTS) solution that can be readily installed into a wide range of platforms. Based on a unique Software Defined Modem (SDM) employing the specialized Hughes SCMA Waveform, it delivers a superior level of mobile video, voice, and data capabilities for COTM and BLoS requirements. Paired with an Intel Quad Core COM Express chipset, the HM200 enclosure is designed for long-term flexibility and compatibility, with a wide variety of data interfaces. Packed in a Short Form Factor rugged IP67 sealed enclosure, the ruggedized modem is compatible with all standards-based antennas to ensure specific mission requirements are met.

Benefits

- High data throughput for BLoS applications
- Scrambled Code Multiple Access Waveform
- COTM solution for any platform
 - Airborne
 - Manned or Unmanned
 - Fixed or Rotary Wing
 - Flight dynamics flexibility
 - Maritime
 - Land
- Very short acquisition and reacquisition time
- Open Architecture for use with any qualified antenna
- Low SWaP footprint
- Frequency reuse



Key Features

- Short Form Factor rugged IP67 enclosure
- Completely sealed, fanless design
- Mil-Spec-Compliant (vibration, temperature, EMI/RFI)
- Interoperable with SCMA or any Software-Defined Waveform
- Integrated Internal DC/DC power supply
- Intel Quad Core Processor Via COM Express
- GUI for Management and Control
- Wide Variety of Data Interfaces

Technical Specifications

Technical specifications and features are subject to change at any time without notice.

- Weight: Approx. 8 lbs
- Dimensions: 8.5 in x 5.5 in x 3.9 in
- Temperature: -40° C to 65° C, with derating for altitude MIL-STD-810G Temperature Compliant
- Vibration: 5 Hz to 2000 Hz, Random, 1 hr each axis, 8.21 GRMS
- EMI/RFI: MIL-STD-461E, MIL-STD-1275D, MIL-STD-704, RTCA/DO-160F, Section 20-21
- Humidity: 0%–95% Relative Humidity
- Data Interfaces: VGA, HDMI, GbE (10/100/1000 BaseT), USB 3.0, Serial (RS422/RS485/RS232), Audio, GPI/GPO
- Power consumption: ~56 W 28 VDC Input (18–32 VDC Range)
- Throughput: 64 kbps–45 Mbps

Technical and Support Services: Hughes offers the following services for both defense and commercial markets for the HM series of Satellite communications products. These include the HM100 Ground Modem, the HM200 Air Modem, the HM400 Air Modem and the HM500 Portable Terminal. The following services are offered on either a fixed price or time and material basis using commercial labor rates:

- Complete system level acquisition and integration of adjunct subsystems that interface with the HM series products described above. These include antennas, routers, video compression, and VoIP audio devices.
- System Level Engineering analysis and support including review of satellite constellations, link budgets, antenna design overview, modem and system level interfaces, and platform integration support.
- On-site participation in end user engineering, program and status reviews.
- In-country support of systems integration and operation.
- Factory based or off-site training courses.
- User documentation development including foreign language translation.
- Satellite bandwidth acquisition for test or operation.
- Satellite managed services, backhaul and internet access for system operation.
- Extended warranty options.

Please contact Hughes Defense Systems Sales at 301-428-5539 for information on service plans and coverage areas before placing orders for this product.