

Sat-on-the-move terminal (Ib-SOTM 100X)

IBETOR has developed a low profile satcom terminal (~20cm height) to respond to high performance communication needs, based on flat antenna technology with array stubs and waveguide feeders. System incorporates an antenna control unit (ACU) developed by IBETOR with highly accurate INS technology to maintain satellite alignment compatible with X and other future bands requirements.

Terminal is compatible with most of the L-Band modems, such as Comtech, iDirect, Hughes, L-3 or Paradise, being able to interoperate with all networks and authorized teleports.



- Mountable on all kind of vehicles (land, sea, air)
- Ensures vehicle low profile (~20cm) and aerodynamics, radically reducing vulnerability
- Able to acquire and track satellite with vehicle in motion. All road (Churchville B tested)
- High pointing accuracy (<math><0,3^\circ</math> heading error)
 - INS with dual GPS working at 1KHz, triaxial gyros, accelerometers and magnetometers.
 - Immediate reacquisition (keeps pointed even when no LOS with satellite)
 - Powerful motors: 1000°/s y 400°/s² of angular speed and acceleration.
- X band with 500MHz of instantaneous frequency.
- Efficient. EIRP: 42dBW (40W BUC) ; G/T=7,5dB/K (up to 8Mbps uplink at spot centre)
- All subsystems can be integrated within the radome (including modem)
 - Easy to install or change to different vehicle
 - Optimizes space inside the vehicle
 - Reduces wiring
- Weight :75-80Kg
- Full MIL-STD (810F, 188-164B, 461)
- SNMP based control and management software

IBETOR technology is already in use by Spanish MISDEF