

# A480R Comms-on-the-Move (COTM)



## Satellite Communication Mobility

Through the fully automated tracking capability of our COTM, we are obsessed with a deep sense of purpose to effect seamless real-time Beyond Line-of-Sight (BLOS) broadband communications via GEO-stationary satellites to enable harsh terrain operation for both military and commercial platform.

### How It Works

For every COTM terminal, AGIL, our unique solutioning approach, acts as the heart of our conscious innovation. We constantly ask and challenge if each is incisive, inventive and intuitive to help solve real-world problems. With emerging technology and experiential thinking, we have effected the implementation over many large-scale security projects in both commercial and military.

### Key Applications

- Emergency communication
- Satellite news gathering
- Oil and gas
- Government and tactical applications

### Key Features

- Tx and Rx for maximum network flexibility transmission and reception
- Fast satellite acquisition pointing and re-acquisition
- MIL-STD 810G, 461E, 1275B compliant (optional)
- Track on beacon or carrier
- Low height profile
- High data rate
- Modem agnostic
- SWaP optimised solution
- Ability to operate in extreme weather conditions

## Technical Specifications

General	
Antenna Type	Parabolic Reflector
Reflector Diameter Equivalent	0.48m
Reflector Configuration	Centre Feed
Frequency Band	Ku Band
RF Performance	
Frequency	10.70 GHz - 12.75 GHz (Rx)
Gain	32.1 dBi (Rx)
Polarisation	Linear
Tracking	Beacon or Carrier
G/T Typical at Midband	10.5 dB/K
Mechanical	
Azimuth	360° continuous
Elevation	10° - 90°
Tracking Performance	Within < 0.5° pointing loss 99% of time
Initial Acquisition Time	< 120 seconds
Re-Acquisition Time	< 5 seconds
Baseband	
Management	Ethernet
Power	
Input Voltage	18V - 36V DC
Power Consumption	150W
Environmental	
Operational Temperature	-10° to 55°
Storage Temperature	-20° to 71°
System Size & Weight	
Weight	55kg
Dimension	Ø 615 x 485H mm

