

SpaceTrack M

World-Class Communications Anywhere in the World™



Developed to meet the communications requirements of mobile operations, Harris CapRock's SpaceTrack M auto-acquire antennas are specifically designed for mounting on trucks and other vehicles in rugged oil and gas operations environments. The SpaceTrack M range of antennas offers a simple, one-button push deployment, delivering the most reliable communications in a matter of minutes.

BENEFITS

- > Antenna deployed and stowed in under 5 minutes, reducing connection time
- > Exceptional stability and accuracy
- > Secure and reliable transmission
- > Cost-efficient, high-performance networks

Certifications and Approvals

Certified to DEF STAN 00-35 Section A.2.2
Road Transport-Wheeled Vehicles

Certified to DEF STAN 00-35 Section A.3.1
Deployed or Installed-Wheeled Vehicles

Minimal height profile when truck-mounted
to meet US vehicle height road regulations

FEATURES

- > One-button 'push and go' automatic acquisition
- > Automatic rain fade compensation with automatic uplink power control (AUPC)
- > Plug and play technologies

Optional Products and Services

Environmental upgrade kits
First Mile Wireless
Skid mount for ease of transportation

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Specifications

Electrical

Operating frequency (GHz)	
Receive	10.95–12.75 (KU)
Transmit	14.0–14.5 (KU)
Midband gain (+ .2 dB)	
Receive	41.7 dBi
Transmit	43.2 dBi
Antenna noise temperature	
20° elevation	46 K
30° elevation	43 K
Sidelobe envelope, Co-Pol (dBi)	
1° < θ < 20°	29–25 Log θ
20° < θ < 26.3°	–3.5 dBi
26.3° < θ < 48°	32–25 Log θ
48° < θ	–10 dBi (averaged)
Feed Interface	Available in a variety of designs
Insertion loss	0.2 dB maximum
Cross-po. isolation	> 30 dB (on axis)
VSWR	1:3:1 maximum

Mechanical

Reflector material	Glass fiber reinforced polyester SMC
Antenna optics	Prime focus, offset feed
Elevation adjustment range	–90° to +90°
Azimuth adjustment range	Full 360° range –190° to +190° travel
Feed	–90° to +90°

Dimensions and weight

Antenna size	1.2 m diameter
Antenna weight	150 kg



SpaceTrack M self-deploying mobile antenna.

Environmental performance

Wind loading	
Max wind speed during operations	95 km/h
Continuous operational	24.58 m/s
Operational (1.5 gust factor)	15.64 m/s
Vehicle static motion	
Pitch	± 10°
Roll	± 10°
Temperature	
Operational	0 to 50 degC
Storage	–10 to 60 degC
Ice	
Optional heating kit available	
Survival ½-in radial (heat kit not fitted)	
Atmospheric conditions	Salt, pollutants, and contaminants as encountered in coastal and industrial areas
Solar radiation	360 BTU/h/ft ²