

## SpaceTrack 4500

## World-Class Communications Anywhere in the World ${}^{\rm \scriptscriptstyle M}$

Designed to meet the communications requirements of stationary offshore assets, Harris CapRock's SpaceTrack 4500 fixed antennas are specifically engineered for production platforms and jackup rigs. The SpaceTrack 4500 range of antennas support both C and Ku-band coverage, delivering the most reliable communications for global operations.



### BENEFITS

- > Simplified antenna pointing
- > Secure and reliable transmission
- > Cost-efficient, high-performance networks

## **Certifications and Approvals**

CE certified Brazil Anatel certified Compliant with MIL-STD 167-1A vibration standard Compliant with FCC 25.221 and FCC 25.222 Compliant with ITU and ETSI ESV specifications Approved by Intelsat Meets Eutelsat standards

### FEATURES

- > Manual or motor-assisted antenna pointing
- > Quick and easy conversion between C and Ku-band footprints
- Industrial-grade radome for protection in harsh environments
- > Radome air conditioning optional

#### Advanced Satellite Technology

The satellite technology used in the SpaceTrack 4500 antenna is based on the award-winning technology used in Harris CapRock's SpaceTrack 4000 stabilized antenna. Antenna pointing is required only one time and once installed and pointed, the antenna will lock on the appropriate satellite signal, guaranteeing continuous and reliable connectivity.



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<b>Technical specifications</b>	;			
Antenna				
4512K	1.2 m diameter, Ku band, symmetrical, prime focus			
	Tx 13.75 – 14.5 GHz	mid band gain	Tx ~43.0 dBi	
	Rx 10.95 – 12.75 GHz	mid band gain	Rx ~41.2 dBi	
		G/T (typical)	20.0 dB/k	
4518K	1.8 m diameter, Ku band,	symmetrical, prime focus		
	Tx 13.75 – 14.5 GHz	mid band gain	Tx ~45.5 dBi	
	Rx 10.95 – 12.75 GHz	mid band gain	Rx ~44.2 dBi	
		G/T (typical)	22.4 dB/k	
4524K	2.4 m diameter, Ku band, symmetrical, prime focus			
	Tx 13.75 – 14.5 GHz	mid band gain	Tx ~50.1 dBi	
	Rx 10.95 – 12.75 GHz	mid band gain	Rx ~47.7 dBi	
		G/T (typical)	25.5 dB/k	
4524C	2.4 m diameter, C band, s	ymmetrical, prime focus		
	Tx 5850 – 6425 MHz	mid band gain	Tx~ 42.1 dBi	
	Rx 3625 – 4200 MHz	mid band gain	Rx ~38.2 dBi	
		G/T (typical)	18.5 dB/k	
Environmental performa	nce			
Wind loading				
Max wind speed during operations		100 knots		
Continuous operational		100 knots		
Temperature				
Operational		-20 to +60 degC		
Atmospheric conditions		Salt, pollutants, and conta	minants as encountered in coasta	l and industrial areas
Antenna movements				
Elevation range	- 5° to +110°			
Azimuth	Unlimited			
Dimensions and weights	;			
4512K	Radome size	1.8 m (H) x 1.8 m (D)	Antenna weight 170	) Kg
4518K	Radome size	2.7 m (H) x 2.55 m (D)	Antenna weight 610	) Kg
4524K	Radome size	3.75 m (H) x 3.6 m (D)	Antenna weight 710	) Kg
4524C	Radome size	3.75 m (H) x 3.6 m (D)	Antenna weight 740	) Kg
Application notes				
4512K	Typical data rates <sup>†</sup> : 9.6 – 512 Kbit/sec		Suitable for small jackups and platforms with space constraints Minimal equipment costs	
Minimal equipment costs				
4518K	Typical data rates <sup>1</sup> : 9.6 – 1024 Kbit/sec		Suitable for small to medium jackups and platforms Higher data rate	
4524K	Typical data rates <sup>†</sup> : 9.6 – 4	4096 Kbit/sec	Suitable for medium to large jackups and platforms Large antenna size supports highest potential bit rates while minimizing space segment costs	
4524C	Typical data rates <sup>†</sup> : 9.6 – 4	4096 Kbit/sec	Suitable for medium to large jackups and platforms C band operation provides higher reliability Linear or circular polarization options available	

<sup>†</sup>Actual data rates may vary depending on amplifier sizing

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