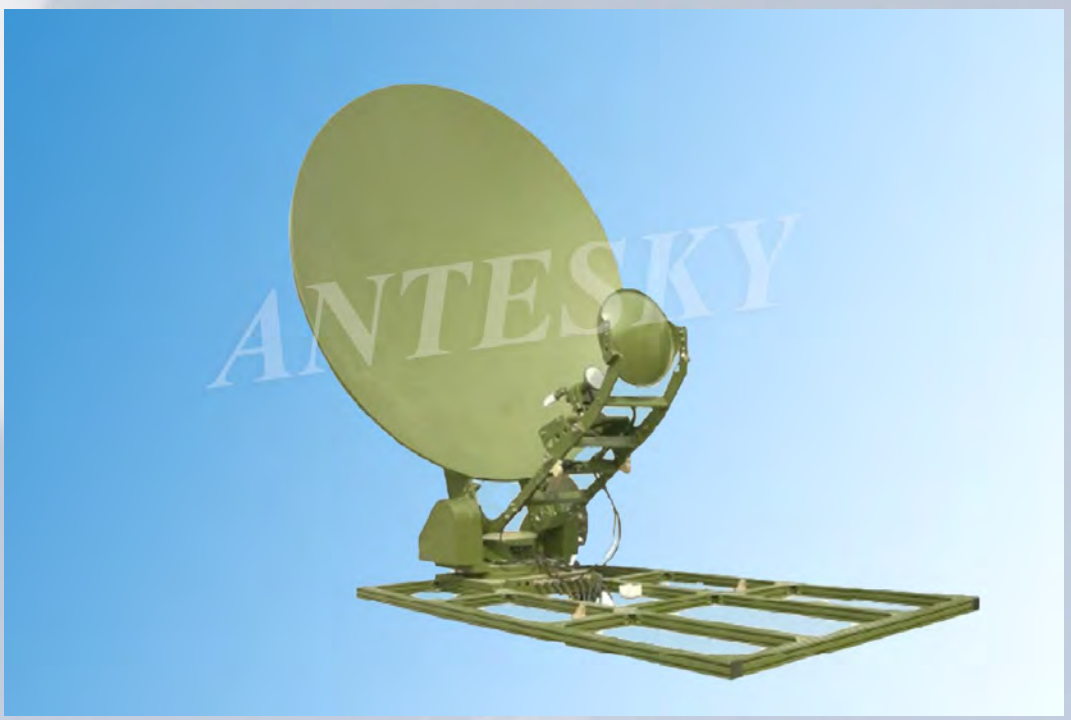
http://www.antesky.com
Tel: +86-29-88352448,
Email: sales@antesky.com

2.4M VEHICLE-MOUNT ANTENNA



System Components

- Antenna feed subsystem: carbon fiber main/sub reflector, feed.;
- Turntable subsystem: azimuth, elevation, polarization three-axis turntable.;
- Servo control subsystem: antenna control unit, antenna drive unit;
- Position acquisition subsystem: digital compass, GPS;
- Receive subsystem: beacon receiver with high sensitivity.

System features

- Excellent reliability, maintainability and environmental suitability, and suitable for both field and urban.
- Automation degree of antenna reaches advanced international level and provides single-step function, it can be operated by man without training.
- The antenna can pointing satellite automatically in the place where is unshaded and can park vehicle.
- Automatic alarm, mechanical limit, software limit, etc, assure the safety in operation.
- Main/sub reflector adopt carbon fiber composite material, assure the strong rigidity and high accuracy.
- Adopt azimuth-elevation vertical axis turntable pedestal, compact structure, well movement rigidity.
- Elevation adopts through going axis linage, drives antenna steadily and reliably, and would not be warped and deformed when antenna overloading.
- Servo system integrates geographic information collection subsystem and step tracking subsystem, which achieves the whole process of unfolding antenna and searching satellite to be automatic.

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2.4M VEHICLE-MOUNT ANTENNA SPECIFICATION

Antenna name		2.4M SNG Vehicle Mounted Antenna		**Antenna type**		Offset, dual-reflector
Operating frequency (GHz)		C-band		Ku-band		
		Rx: 3.4~4.2	Tx: 5.85~6.725	Rx: 10.95～12.75		Tx: 13.75～14.5
Gain(dBi)		≥37+20lg (f/3.8GHz)	≥41.5+20lg(f/6.2875GHz)	≥48+20lg(f/11.85GHz)		≥49+20lg(f/14.25GHz)
Polarization		Linear/Circular		Linear		
Cross polarization isolation		≥30dB (on axis),		≥35dB (on axis),		
First sidelobe		≤ -14 dB		≤ -14 dB		
VSWR		≤1.5		≤1.3		
Travel Range	Az	± 220°		**Travel rate**	Az	0.1°～3 °/s
	El	10°～90°			El	0.1°～1 °/s
	Pol	±95°			Pol.	0.1°～3 °/s
Aligning time		≤3min				
Feed interface		Rx:CPR-229G Tx:CPR-159G/137G		WR75		
Power capacity		≤ 100 W		≤ 100 W		
Pointing accuracy		Superior than 1/5 half power beamwidth				
Auto-acquisition mode		Beacon pointing/DVB				
Position mode		GPS or manual input				
Controller		2U standard cabinet (LNB control cabinet, antenna control cabinet)				
Temperature		-40°C~+55 °C		**Operational wind**		20m/s
Storage temperature		-50°C~+65 °C		**Survival wind**		27m/s
Humidity		95%(20 °C)		**Protection level**		IP65
System consumption		≤800W (not including power amplifier)		≤ 1000 W (not including power amplifier)		
Power supply		220 VAC±10%, 50Hz±2 Hz				
System weight		≤ 380Kg(not including power amplifier, packing and attachment)				