

# ASI-T900 0.9-Mtr Ku-Band Antenna

## Antenna System Overview

The 0.9-Mtr ASI-T900 vehicle flat-panel antenna is an integrated satellite communication system developed for the needs of mobile satellite communications. Through accurate and stable satellite tracking technology, efficient and reliable satellite communication link, ensuring uninterrupted and efficient transmission of high-quality voice, data, video and other media information under various environmental conditions.



T900



BUC



ACU



Cables

## System Features

The antenna system is mainly composed of the above components.

- 1) ASI-T900 vehicle mounted antenna—an equivalent 0.9-Mtr flat-panel array antenna, the main outdoor unit of the whole system, used to receive and transmit high-frequency signals.
- 2) Block Up Converter (BUC) is included, or can be selected by the customer.
- 3) ACU is an indoor control unit for the antenna, it monitors and controls the status of the antenna.
- 4) Connecting Cables—The connecting cables between the indoor unit and the outdoor unit includes a 7-Mtr RF cable and a 7-Mtr data power cable. (Length of cable may be customized).

# ASI-T900 0.9-Mtr Ku-Band Antenna

Specification		
<b>Antenna Properties</b>		
Type	Panel horn array antenna	
Weight	110Kg	
Dimension	1495×580mm(diameter×height)	
Power input	AC220V 50Hz, power consumption: 200W (BUC excluded)	
Control Mode	Remote ACU control	
<b>Electrical Properties</b>		
Frequency	Rx: 10.7~11.45 GHz      Tx: 12.75-13.25 GHz	
Gain	Rx≥38.5dBi (11.85GHz)      Tx≥39.5dBi (14.25GHz)	
Polarize Isolation	≥30dB	
1st Side Lobe	Azimuth : ≤-14dB; elevation ≤-12dB	
Polarization	linear	
<b>Structural Properties</b>		
Stabilization	2-axi tracking, gear drive	
Operating Range	Azimuth : 360°continuous rotating	Elevation : 10°~90°
	Rx polarize: 360°continuous rotating	Tx Polarize: 360°continuous rotating
<b>Antenna Tracking Property</b>		
Tracking Mode	INS measure, beacon tracking	
Tracking Accuracy	0.2°RMS	
Initial Acquisition	≤120s	
<b>Antenna Environmental Adaptation</b>		
Operating Temperature	-40°C~+65°C	