

Ka-Band Satellite Communication Phased Array Terminal

Product Photos:



Product Features:

- Separate transmitting and receiving aperture design
- Beam scanning range: azimuth 360°, off-axis angle $\geq +70^\circ$
- High-density integration of receiving and transmitting components
- Built-in up/down converters with adjustable RF gain
- Satellite tracking capability, keeping internet connection for vehicle speeds up to 120 km/h (highways) and 30 km/h (rural roads)Flexible power system, adaptable as a portable phased array terminal
- Controllable output power
- Includes Beidou/GPS positioning and timing functions, with antenna position report function
- Modem integrated

Technical Parameters:

Items	Parameters		Remarks
Working Frequency	Tx	27.5~31GHz	
	Rx	17.7~21.2GHz	
Beams	Tx	1	
	Rx	1	
EIRP	$\geq 75\text{dBm @}29.25\text{GHz}$		Normal Direction
G/T	$\geq 8.8\text{dB/K @}19.45\text{GHz}$		Normal Direction
Scanning Range	Azimuth	$0^\circ \sim 360^\circ$	
	Off-axis angle	$\geq \pm 70^\circ$	
Polarization Isolation	$\geq 30\text{dBc @}14.1\text{GHz}$		
Polarization	Circular		
Power Consumption	$\leq 470\text{W}$		
Power Supply	28V		
Dimensions	650mm × 590mm × 80mm		
Weight	$\leq 23\text{kgs}$		
Interfaces	IF Interface	SMA-K	
	Control Interface	Circular Connector	
	Power Interface	Circular Connector	