

1.8M C-BAND DRIVE AWAY ANTENNA DATASHEET



On vehicle



Key Features

- * Offset feed antenna for C/Ku-band
- * Special designed for mounting on SUV, Minivan or MPV
- * Suit for broadband communication and various emergency situations.
- * Meet needs of mainstream satellite operating company.
- * Acquire any Ku and C band satellite within 2 minutes.
- * Matches various types of BUC
- * 4 tracking methods: Beacon, DVB carrier, reference star and modem signal
- * Instant broadband data communications
- * WIFI control method is optional.

Details



Model	P4000V18
Electrical Performance	
Frequency	C band
Tx	5.850~6.725GHz
Rx	3.400~4.200GHz
Polarization	Linear, Orthogonal
Feed Interface	Tx:CPR-137, Rx:CPR-229
3dB Beamwidth	TX: 2.0°@6.1GHz RX: 3.0°@3.9GHz
Gain	RX: 35.4dBi TX: 39.3dBi
Noise Temperature	10°EL=41°K, 20°EL=36°K, 30°EL=33°K, 1.5°<θ<20° 29-25logθ dBi
Sidelobe Envelope	20°<θ<26.3° -3.5dBi 26.3°<θ<48° 32-25logθ dBi 48°<θ<180° -10 dBi
Cross Polarization	30dB (On Axis) N/A
Isolation (Port to Port)	RX: >60dB TX: >60dB
VSWR	RX:1.4:1 TX:1.3:1
Mechanical Performance	
Reflector	1.8m, SMC
Antenna Type	Prime focus, offset feed antenna
Positioning Sensor	BD&GPS
Azimuth Sensor	Compass ±2°
Tilt Sensor	Tilt meter ±0.2°
Azimuth Range	±240°
Elevation Range	0° ~90°
Polarization	±95°
Elevation Travel Rate	0.1° ~9° / sec
Azimuth Travel Rate	0.1° ~9° / sec
Polarization Travel Rate	0.1° ~12° / sec
Physical Performance	
Stowed Dimension (mm)	2600L×1880W×600H
Weight	≤160kg
Antenna controller Unit	
Power	90-260VAC,40-60Hz
Signal Tracking	DVB S1/S2 and Beacon receiver (hot standby), Modem SNR
Operating Mode	Auto/Manual, key touch position
Dimension/Weight	1U, 2.5kg
Language	English
Setup Time	≤2min
Pointing Accuracy	0.2°
Power Consumption (w/o BUC)	≤300W
Remote Network Control	Support WiFi control
Environmental Performance	
Wind Loading	Operational: 72km/h Survival (Deploying): 110km/h Survival (Stowing): 220km/h
Temperature	Operating temperature: -40℃ ~ 55℃ Storage temperature: -55℃ ~ 85℃
Protection Grade	IP65
Humidity	0~100%



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Altitude	≤5000m
MTBF	≥2000hr
MTR	≤1.5hr