

DITEL® V101 KA

1m Maritime 3-Axis KA-Band VSAT Antenna



Low Signal Loss

Compatible with a variety of modems, for internal modems built into the radome the entire RF link is less than 1 meter, signal transmission loss is significantly reduced.

Stable and Reliable Tracking

Adoption of reflector surface tracking algorithm, based on three-dimensional relationships of signal level, azimuth angle, and elevation angle, ensuring stable and reliable tracking.

High Tracking Accuracy

Adopting an upper inertial navigation scheme, an accurate error model, and efficient compensation and correction of errors, resulting in high tracking accuracy.

Easy Installation

1 single and 3 cable solutions connecting the antenna to indoor units, convenient installation and wiring.

Open Platform Compatibility

The ACU integrates the ABS function and supports the iDirect OpenAMIP protocol for auto beam switching.

Advanced System Control

Antenna controller system built-in Wi-Fi, wireless devices The ACU has built-in Wi-Fi, allowing wireless device users to directly connect. Advanced system control and antenna status monitoring can be achieved using an ACU web interface.

Ditel V101 is a 105cm Ka-Band maritime VSAT antenna system ideal for global commercial vessels, offshore vessels, oil and gas platform, etc. With its 3-axis stabilized platform and 5 patent technologies. Ditel V101 offers superior high tracking performance, supporting remote control by PC and mobile, video monitoring, broadband, video conference, VoIP and other network applications. With the ability to select from a range of satellites, the Ditel V101 is ideal for deep-ocean vessels with high demands for onboard broadband services.

Physical Parameters

Radome height	139.4cm (54.9 inch)
Radome diameter	134.6cm (53.0 inch)
Reflector diameter	106cm (41.7 inch)
Radome color	White
Radome materials	FRP/SMC
Antenna weight	100kg (220.46lbs)
Environmental humidity	0~95%
Operating temp. range	-25°C~60°C
Waterproofing grade	IP66
Satellite band	KA-Band
Antenna type	Ring focus rear feed antenna
ACU size	350*230*50.98mm (Without bracket)
ACU weight	2.9kg

Tracking Parameters

Stabilization forms	3-axis stabilized: Azimuth,Elevation,Roll
Tracking forms	3-axis tracking: Azimuth, Elevation, Roll
Tracking and location mode	Built-in inertial guidance+BDS/GPS
Azimuth range	Unlimited
Elevation range	-10°~112°
Roll range	±42°
Carrier tracking speed	Elevation: ±20° @4S Roll: ±20° @5S Azimuth: ±90° @36S
Initial lock	≤90S
Re-lock after break lock time	Break lock<60s, Re-lock<60s
Tracking braking system	Azimuth, Elevation, Roll

Communication Parameters

TX frequency	29.0~30.0GHz
TX gain	47.5dBi (29.5GHz)
RX frequency	17.8~20.2GHz
RX gain	44.5dBi (19.7GHz)
G/T (Clear sky 30° elevation)	19.9dB/K
Power input	AC: 100~240V (50Hz) DC: 22~32V
Power output	DC: 24V
Static power	33W (Without BUC power)
Dynamic power	44W (Without BUC power)
BUC power	4W/ 10W (Optional)
Polarization	Circular polarization (Left/ Right /Auto switching)
Axial ratio	<1.5dB

Equipment Size

