

DITEL® V81

83cm Maritime Ku Band VSAT



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.

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.

Modem Compatibility

Compatible with a variety of modems, including iDirect, UHP, Newtec, Gilat, Comtech, Hughes, Anovo, Spacebridge and many more.

Easy Installation

Both 1-cable and 3-cable solutions available for connecting the antenna to indoor units, ensuring convenient installation and simplified wiring.

Open Platform Compatibility

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

Advanced System Control

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 V81 maritime VSAT satellite communication antenna system delivers superior tracking and RF performance, making it an ideal choice for larger vessels. Designed for easy installation and onboard operation, it also provides access to remote support when needed. Users can seamlessly enjoy remote control via PC and mobile devices, web browsing, broadband connectivity, video monitoring, video conferencing, VoIP, and other network applications, in dynamic sea conditions.

Physical Parameters

Radome height	102cm (40.16 inch)
Radome diameter	104.6cm (41.18 inch)
Reflector diameter	83cm (32.7 inch)
Radome color	White / Blue
Radome materials	ASA / SMC
Antenna weight	58kg / 128lbs
Environmental humidity	0~95%
Operating temp. range	-25°C~60°C
Waterproofing grade	IP56
Satellite band	Ku-band
Antenna type	Ring focus rear feed antenna
ACU size	350*230*50.98mm (Without bracket)
ACU weight	2.9 kg

Tracking Parameters

Stabilization forms	3-axis stabilized: Azimuth,Elevation,Roll
Tracking forms	4-axis tracking:Azimuth, Elevation, Roll, Skew
Tracking and location mode	Built-in inertial guidance& BDS /GPS
Azimuth range	Unlimited
Elevation range	-10°~105°
Roll range	±35°
Skew range	±167.5°
Carrier tracking speed	Elevation: ±20° @5S Roll: ±20° @5S Azimuth: ±90° @36S
Initial lock	≤60S
Re-lock after break lock time	Break lock<30s; Re-lock<3s
Tracking braking system	Azimuth, Elevation, Roll, Skew

Communication Parameters

TX frequency	13.75~14.5GHz
TX gain	40.0dBi (14.25Ghz)
RX frequency	10.7~12.75GHz
RX gain	38.9dBi (12.5GHz)
G/T (Clear sky 30° elevation)	17.0dB/K
Power input	AC: 100~240V (50Hz) DC: 15~36V
Power output	DC: 24V
Static power	37W (Without BUC power)
Dynamic power	57W (Without BUC power)
BUC power	4W/6W/8W/16W(Optional)
LNB KU-Band	L.O: 9.75/10.6/11.3GHz (Customizable) Linear polarization
Polarization	Linear polarization
Cross-POL Isolation	>30dB
Min. EIRP	44dBW

Equipment Size

