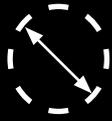


DSi6 Ku PRO

Reflector
diameter



60 cm

Tracking
speed



up to 50°/s

Max.
BUC power



16 W

SIM LTE



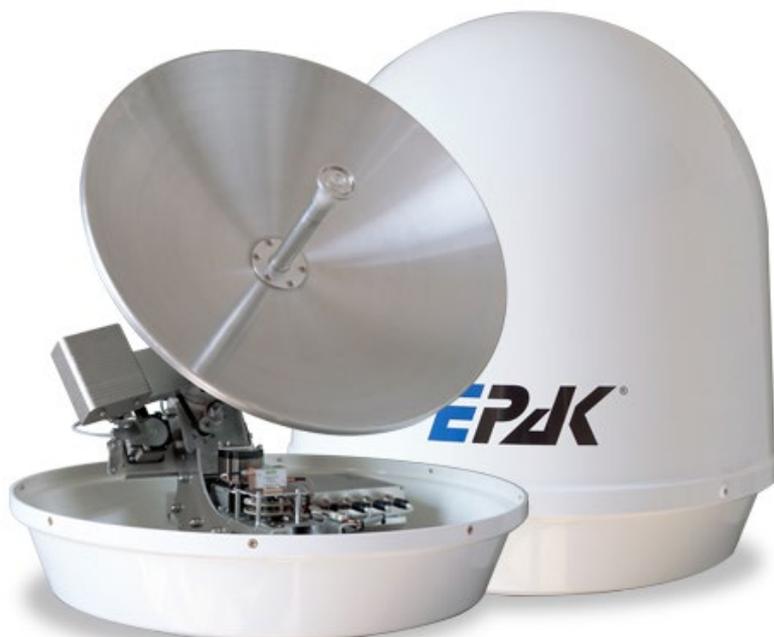
available



Maritime VSAT antenna with 60 cm dish size and 3-axis motion system for Ku-band services.

Like all VSAT systems within the DSi-Series, the DSi6 Ku PRO is specifically designed to meet even the hardest requirements in harsh seas. With its automated polarization tracking, the DSi6 Ku PRO guarantees excellent network availabilities even under the most challenging conditions.

The DSi6 Ku PRO combines the advantage of contained weight and dimensions with an astonishing tracking speed and all the reliability of the Ku-Band, in order to give to its users the best internet experience possible.



Remote Management Access

Access, monitor and control the DSi6 Ku PRO from any location in the world or set up an automated system diagnostics including event logging.

Web Interface

EPAK VSAT antennas feature an embedded web-server to provide a web user interface for making configurations and accessing live data from the antenna for simplified troubleshooting and monitoring performance.

SIM LTE

You can insert two local SIM cards into the antenna's control unit to access low-cost, high-speed Internet when a 3G/4G network is available.

Automatic Satellite Acquisition

The acquisition of the satellite is completely automated by DVB-S2-Receiver and Modem confirmation.

Diversity Kit Compatibility

No more blind spots by combining the free line of sight ranges of two antennas in one bundle. That will prevent nearly any loss of satellite signals through blockades.

Solid Hardware

Improved hardware reliability against sea conditions.

KEY FEATURES:

- 3-axis motion system + auto skew
- Range movement from -15° to +120°
- Tracking speed up to 50°/s
- LTE Plug & Go SIM cards
- LEO, MEO, GEO tracking supported
- Easy to install and refit
- Contained dimensions and weight
- Electronically switchable in x-pol and co-pol operation
- Compatible with most modems
- VoIP optional

| Feed Subsystem | |
|-----------------------------|---|
| Reflector diameter | 60 cm (23.62") |
| Minimum E.I.R.P. | 46 dBW |
| LNB | Universal (LOF 9.75/10.6 GHz, PLL stabilized, internal ref.) |
| BUC | Super extended Ku (LOF 12.80 GHz, PLL stabilized, external ref.) |
| Available BUC power | 4 W / 8 W / 16 W |
| RX antenna gain | 36.3 dBi @ 12.5 GHz |
| TX antenna gain | 37.0 dBi @ 14.25 GHz |
| RX / TX polarization | Linear, X-pol |
| G/T | >15 dB/K (clear sky, 30° elevation) |
| Position acquisition | Internal GNSS (GPS / Glonass / Galileo / Beidou / QZSS) |
| Tracking receiver | Internal, 950 - 2150 MHz; BW 0.5 - 50 MHz |

| Frequency Band | |
|---------------------|------------------|
| RX frequency | 10.7 - 12.75 GHz |
| TX frequency | 13.75 - 14.5 GHz |

| Drive Subsystem | |
|-------------------------------|--|
| Tracking technology | Twin RF tracking receiver + 6D inertial + GNSS (NMEA input optional) |
| Maximum tracking speed | 50°/s (each axis) |
| Azimuth range | Unlimited |
| Elevation range | -15° to +120° |
| Skew range | -120° to +120° |
| Cross level range | -45° to +45° |

| | |
|---|--|
| Maximum ship motion | <ul style="list-style-type: none"> Roll ±40° @ 6 sec Pitch ±30° @ 6 sec Yaw ±15° @ 6 sec |
| Ship motion (for stabilization accuracy tests) | <ul style="list-style-type: none"> Roll ±30° @ 10-12 sec Pitch ±20° @ 8-10 sec Yaw ±8° @ 15 sec |
| Motion system | 3-axis plus auto skew |

| Miscellaneous | |
|---------------------------------------|---|
| Lock on time | Typ. 20 sec (Time to Online depends on modem) |
| Satellite acquisition | Completely automated by DVB-S2-Receiver and/or modem confirmation (according to ETSI 302 340) |
| EPAK® Diversity-Kit compatible | ✓ |
| Modem approval | Standard type approval; CE & EPAK type approval |
| Operating temperature | -30°C to 55°C |
| Storage temperature | -30°C to 85°C |
| Humidity | According to IEC 60945, 100% condensing |
| Vibration | According to IEC 60945; MIL-STD-167-1 |
| Shock | According to IEC 60721-4-6; MIL-STD-810F |
| Rain | IP56 |
| Wind | <ul style="list-style-type: none"> Operational: < 150 km/h Survival: < 200 km/h |
| Compass safe distance | ≥ 2.00 m (according to IEC 60945) |

| | |
|-------------------|---|
| Compliance | <ul style="list-style-type: none"> CE (Maritime), ETSI Complies with the specifications of EC directive 2014/53/EU Radio & Telecommunications Terminal Equipment (R&TTE); compliance with EC directive 2014/35/EU, EMC directive 2014/30/EU and IEC 301-427 |
|-------------------|---|

| Power Specifications | |
|--|--|
| Power supply antenna (ODU) | 48 V DC (supplied by ACU) |
| Antenna input voltage TX (BUC) | 24, 48 V DC / 250 VA (supplied by ACU) |
| Power consumption (ODU excl. BUC) | Up to 150 VA (supplied by ACU) |

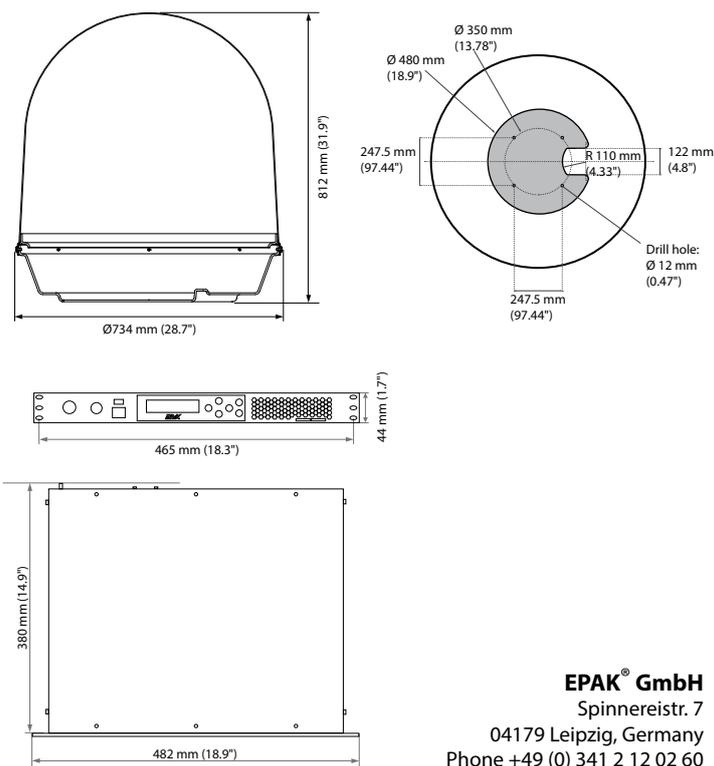
| Dimensions and Weight | |
|------------------------------|---------------------------------|
| Radome (D x H) | 73 cm x 81 cm (28.74" x 31.88") |
| Weight (incl. radome) | 46 kg (101.41 lbs) |

| Antenna Control Unit | |
|---------------------------------|---|
| Dimensions (WxHxD) | 48.2 cm x 4.4 cm x 38 cm (19" x 1.7" x 14.9") (19" Rack 1HU size) |
| Weight | 5.1 kg (11.24 lbs) |
| Gyro interface | NMEA0183 / NMEA2000 (via RS422 or RS485 or RS232) / SIMRAD RGC11 |
| Input voltage, frequency | 90~264 V AC, 47~63 Hz |
| Interfaces | <ul style="list-style-type: none"> 1x RS232/RS422 (RJ45) 4x Ethernet + 1x open BMIP (RJ45) 2x USB 1x GPIO |
| Local user interface | 256x64px OLED-Display, 3 Status-LEDs, 6 Push-Buttons |
| Modem interface | Ethernet port + GPIO |
| Modem protocols | openAMIP / SNMP / Telnet / open BMIP |
| Remote access | TCP / IP |
| Position acquisition | Supplied by ODU |
| Operating temperature | -20°C to 55°C |
| Storage temperature | -40°C to 85°C |
| Humidity | According to IEC 60945 |
| IP class | IP 30 |
| Compass safe distance | 0.5 m according to IEC 60945 |

| Supported modems | |
|-------------------|--|
| Modem type | <ul style="list-style-type: none"> iDirect iNFINITI, Evolution, Velocity Hughes HX200 ViaSat SBT-M Comtech CDM-250/840 Gilat Skyedge II C4 Paradise PD25L, Datacom Q-Flex Advantech VR700, VR7400 STM Satlink 1910 Romantis / Eastar UHP 1000 / UHP 2000 others on request |

| Cables and Connectors | |
|-----------------------|---|
| ACU to Antenna | <ul style="list-style-type: none"> 2x Double shielded coax cable (ECOFLEX 10) with N-plugs |
| ACU to Modem | <ul style="list-style-type: none"> 2x Double shielded coax cable (RG6) with F and TNC-plugs 1x Ethernet with RJ45 plugs |

Radome and ACU Dimensions



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