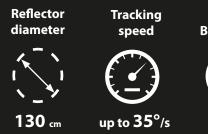
# DSi13 Ku PRO





60 w

Max.

SIM LTE



available

# 

#### Remote Management Access

Access, monitor and control the DSi13 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 webserver 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, highspeed 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 -20° to +115°
- Tracking speed up to 35%
- LTE Plug & Go SIM cards
- LEO, MEO, GEO tracking supported
- Easy to install
- 130 cm dish for high-quality signal reception and transmission
- Electronically switchable in x-pol and co-pol operation
- Compatible with most modems
- Honeycomb FRP radome
- VoIP optional

### Maritime VSAT antenna with 130 cm dish size and 3-axis motion system for Ku-Band services.

EPAK's latest innovation in maritime satellite communication is the VSAT DSi13 Ku PRO, a maritime satellite antenna for Internet connection operating in Ku-band.

The 130 cm diameter dish system is so far the largest antenna in EPAK's portfolio. Its high-end technical features allow reliable functionality even in regions with fading signals or under harsh weather conditions.

The 3-axis motion system make the antenna free to move and point to whichever direction the satellite is.

The DSi13 Ku PRO has been designed for addressing the communication needs of superyachts, oil and gas platforms, navy boats and frigates, cruise ships and all other vessels demanding for a strong and reliable but yet easy to install satellite system for Internet at sea.

The DSi13 Ku PRO reaches excellent tracking performance under the hardest maritime motion profile "Class A", defined by Global VSAT Forum and Fraunhofer Institute.





# **TECHNICAL SPECIFICATION**

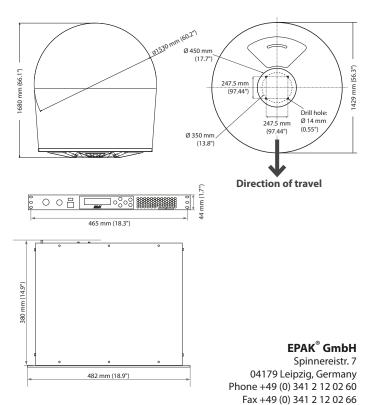
| Feed Subsystem                                 |  |
|--|--|
| Reflector diameter                             | 130 cm (51.18")  |
| Minimum E.I.R.P.                               | 40 dBW   |
| LNB  | Universal<br>(LOF 9.75/10.6 GHz, PLL stabilized, internal ref.)  |
| BUC  | Super extended Ku<br>(LOF 12.80 GHz, PLL stabilized, external ref.)  |
| Available BUC power                            | 8 W / 16 W / 25 W / 40 W / 60 W  |
| RX antenna gain                                | 43.1 dBi @ 12.5 GHz  |
| TX antenna gain                                | 44.3 dBi @ 14.25 GHz   |
| RX / TX polarization                           | Linear, Co-pol and X-pol   |
| G/T  | >20.9 dB/K (clear sky, 30° elevation)  |
| Position acquisition                           | Internal GNSS (GPS / Glonass / Galileo /<br>Beidou / QZSS)   |
| Tracking receiver                              | Internal, 950 - 2150 MHz; BW 0.5 - 50 MHz  |
| Frequency Band                                 | 10.7 - 12.75 GHz   |
| RX frequency<br>TX frequency                   | 13.75 - 14.5 GHz   |
| Drive Subsystem                                | 13.75 14.5 012   |
| Tracking technology                            | Twin RF tracking receiver + 6D inertial + GNSS<br>(NMEA input optional)  |
| Maximum tracking speed                         | 35°/s (each axis)  |
| Azimuth range                                  | Unlimited  |
| Elevation range                                | -20° to +115°  |
| Skew range                                     | -120° to +120°   |
| Cross level range                              | -45° to +45°   |
| Maximum ship motion                            | <ul> <li>Roll ±30° @ 9 sec</li> <li>Pitch ±20° @ 9 sec</li> <li>Yaw ±8° @ 12 sec</li> </ul>  |
| Ship motion (for stabilization accuracy tests) | <ul> <li>Roll ±30° @ 10-12 sec</li> <li>Pitch ±20° @ 8-10 sec</li> <li>Yaw ±8° @ 15 sec</li> </ul>   |
| Motion system                                  | 3-axis plus auto skew  |
| Miscellaneous                                  |  |
| Lock on time                                   | Typ. 30 sec (Time to online depends on modem)  |
| Satellite acquisition                          | Completely automated by DVB-S2-Receiver<br>and/or modem confirmation (according to<br>ETSI 302 340)  |
| EPAK <sup>®</sup> Diversity-Kit compatible     | $\checkmark$   |
| 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> <li>Operational: &lt; 150 km/h</li> <li>Survival: &lt; 200 km/h</li> </ul>  |
| Compass safe distance                          | ≥ 2.00 m (according to IEC 60945)  |
| Compliance                                     | <ul> <li>CE (Maritime), ETSI</li> <li>Complies with the specifications of<br/>EC directive 2014/53/EU Radio &amp; Tele-<br/>communications Terminal Equipment<br/>(R&amp;TTE); compliance with EC directive<br/>2014/35/EU, EMC directive 2014/30/<br/>EU and IEC 301-427</li> </ul> |
| Power Specifications                           |  |
| Power supply antenna (ODU)                     | 48 V DC ( supplied by ACU)   |
| Antenna input voltage TX (BUC)                 | 25 W BUC and less: 24, 48 V DC / 250 VA<br>(supplied by ACU)<br>40 W BUC: 48 V / 350 VA<br>(supplied by additional power supply)   |
| Power consumption (ODU excl. BUC)              | Up to 180 VA (supplied by ACU)   |
| Dimensions and Weight                          |  |
| Radome (D x H)                                 | 153 cm x 168 cm (60.24" x 66.14")  |
| Weight (incl. radome)                          | 120 kg (264 lbs)   |
| Radome material                                | Honeycomb FRP  |
|  |  |

## DSi13 Ku PRO

| Dimensions (WxHxD)48.2 cm x 4.4 cm x 38 cm<br>(19" x 1.7" x 14.9") (19" Rack 1HU size)Weight5.1 kg (11.24 lbs)Gyro interfaceNMEAD183 / NMEA2000 (via R5422 or<br>R5485 or R5232) / SIMRAD RGC11Input voltage, frequency90-264 V AC, 47-63 HzInterfaces1 x R5232/R5422 (RJ45)<br>• 4x Ethernet + 1x open BMIP (RJ45)<br>• 2 x USB<br>• 1x GPIOLocal user interface256x64px OLED-Display, 3 Status-LEDs, 6<br>Push-ButtonsModem interfaceEthernet port + GPIOModem protocolsopen AMIP / SIMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems-<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>·<br>· <b< th=""><th></th><th></th></b<> |  |  |
|---|--|--|
| Gyro interfaceNMEA0183 / NMEA2000 (via RS422 or<br>RS485 or RS232) / SIMRAD RGC11Input voltage, frequency90~264 V AC, 47~63 HzInterfaces1 x RS232/RS422 (RJ45)<br>• 4 x Ethernet + 1x open BMIP (RJ45)<br>• 2 x USB<br>• 1 x GPIOLocal user interface256x64px OLED-Display, 3 Status-LEDs, 6<br>Push-ButtonsModem interfaceEthernet port + GPIOModem protocolsopenAMIP / SNMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems-Modem type-Gilat Skyedge II C4<br>• Paradise PD25L, Datacom Q-Flex<br>• Advantech VR700, VR7400<br>• STM Satik 1910<br>• Romantis / Eastar UHP 1000 / UHP 2000<br>• others on requestCables and Connectors-ACU to Antenna-ACU to Modem-ACU to Modem-<  | Dimensions (WxHxD)   |  |
| Gyro interfaceRS485 or RS232) / SIMRAD RGC11Input voltage, frequency90~264 V AC, 47~63 HzInterfaces1x RS232/RS422 (RJ45)• 4x Ethernet + 1x open BMIP (RJ45)• 2x USB• 1x GPIOLocal user interface256x64px OLED-Display, 3 Status-LEDs, 6Push-ButtonsModem interfaceEthernet port + GPIOModem protocolsopenAMIP / SNMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems-Modem type-Gilat Skyedge II C4-Paradise PD25L, Datacom Q-Flex- Advantech VR700, VR7400- STIM Satink 1910- Romantis / Eastar UHP 1000 / UHP 2000- Others on requestCables and ConnectorsACU to Antenna-ACU to ModemACU to Modem  | Weight   | 5.1 kg (11.24 lbs)   |
| Interfaces1x RS232/RS422 (RJ45)<br>4x Ethernet + 1x open BMIP (RJ45)<br>2x USB<br>1x GPIOLocal user interface256x64px OLED-Display, 3 Status-LEDs, 6<br>Push-ButtonsModem interfaceEthernet port + GPIOModem protocolsopenAMIP / SNMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems-Modem type-Gallat Skyedge II C4<br>· Paradise PD25L, Datacom Q-Flex<br>· Advantech VR700, VR7400<br>· STM Satlink 1910<br>· Romantis / Eastar UHP 1000 / UHP 2000<br>· others on requestAcU to Antenna-AcU to Modem-AcU to Modem- <th>Gyro interface</th> <th></th>  | Gyro interface   |  |
| Interfaces:4x Ethernet + 1x open BMIP (RJ45)<br>:2x US8<br>:Local user interface256x64px OLED-Display, 3 Status-LEDs, 6<br>Push-ButtonsModem interfaceEthernet port + GPIOModem protocolsopenAMIP / SNMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems:Modem type: iDirect iNFINITI, Evolution, Velocity<br>· Hughes HX200<br>· ViaSat SBT-M<br>· Comtech CDM-250/840<br>· Gilat Skyedge II C4<br>· Paradise PD2SL, Datacom Q-Flex<br>· Advantech WR700, VR7400<br>· STM Satlink 1910<br>· Romantis/ Eastar UHP 1000 / UHP 2000<br>· others on requestACU to Antenna: 2x Double shielded coax cable (ECOFLEX 10) with N-plugsACU to Modem: 2x Double shielded coax cable (RG6)<br>with F and TNC-plugs   | Input voltage, frequency   | 90~264 V AC, 47~63 Hz  |
| Local user interfacePush-ButtonsModem interfaceEthernet port + GPIOModem protocolsopenAMIP / SNMP / Telnet / open BMIPRemote accessTCP / IPPosition acquisitionSupplied by ODUOperating temperature-20°C to 55°CStorage temperature-40°C to 85°CHumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modems-Modem type-Modem type-Gallat Skyedge II C4<br>· Paradise PD25L, Datacom Q-Flex<br>· Advantech VR700, VR7400<br>· STIM Satlink 1910<br>· Romantis / East UHP 1000 / UHP 2000<br>· others on requestACU to Antenna-ACU to Modem-ACU to Modem-  | Interfaces   | <ul> <li>4x Ethernet + 1x open BMIP (RJ45)</li> <li>2x USB</li> </ul>  |
| 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 <ul> <li>iDirect iNFINITI, Evolution, Velocity</li> <li>Hughes HX200</li> <li>ViaSat SBT-M</li> <li>Comtech CDM-250/840</li> <li>Gilat Skyedge II C4</li> <li>Paradise PD25L, Datacom Q-Flex</li> <li>Advantech VR700, VR7400</li> <li>STM Satlink 1910</li> <li>Romantis / Eastar UHP 1000 / UHP 2000</li> <li>others on request</li> </ul> Cables and Connectors <ul> <li>2x Double shielded coax cable (ECOFLEX 10) with N-plugs</li> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li> </ul>  | Local user interface   |  |
| 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 <ul> <li>iDirect iNFINITI, Evolution, Velocity</li> <li>Hughes HX200</li> <li>ViaSat SBT-M</li> <li>Comtech CDM-250/840</li> <li>Gilat Skyedge II C4</li> <li>Paradise PD25L, Datacom Q-Flex</li> <li>Advantech VR700, VR7400</li> <li>STM Satlink 1910</li> <li>Romantis / Eastar UHP 1000 / UHP 2000</li> <li>others on request</li> </ul> <li>Cables and Connectors</li> <li>ACU to Antenna</li> <li>2x Double shielded coax cable (ECOFLEX 10) with N-plugs</li> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li>   | Modem interface  | Ethernet port + GPIO   |
| 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 <ul> <li>iDirect iNFINITI, Evolution, Velocity</li> <li>Hughes HX200</li> <li>ViaSat SBT-M</li> <li>Comtech CDM-250/840</li> <li>Gilat Skyedge II C4</li> <li>Paradise PD25L, Datacom Q-Flex</li> <li>Advantech VR700, VR7400</li> <li>STM Satlink 1910</li> <li>Romantis / Eastar UHP 1000 / UHP 2000</li> <li>others on request</li> </ul> Cables and Connectors <ul> <li>2x Double shielded coax cable (ECOFLEX 10) with N-plugs</li> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li> </ul>  | Modem protocols  | openAMIP / SNMP / Telnet / open BMIP   |
| 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 <ul> <li>iDirect iNFINITI, Evolution, Velocity</li> <li>Hughes HX200</li> <li>ViaSat SBT-M</li> <li>Comtech CDM-250/840</li> <li>Gilat Skyedge II C4</li> <li>Paradise PD25L, Datacom Q-Flex</li> <li>Advantech VR700, VR7400</li> <li>STM Satlink 1910</li> <li>Romantis/ Eastar UHP 1000 / UHP 2000</li> <li>others on request</li> </ul> Cables and Connectors         ACU to Antenna <ul> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li> <li>with F and TNC-plugs</li> </ul>  | Remote access  | TCP / IP   |
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| HumidityAccording to IEC 60945IP classIP 30Compass safe distance0.5 m according to IEC 60945Supported modemsModem type• iDirect iNFINITI, Evolution, Velocity<br>• Hughes HX200<br>• ViaSat SBT-M<br>• Comtech CDM-250/840<br>• Gilat Skyedge II C4<br>• Paradise PD25L, Datacom Q-Flex<br>• Advantech VR700, VR7400<br>• STM Satlink 1910<br>• Romantis / Eastar UHP 1000 / UHP 2000<br>• others on requestCables and Connectors2x Double shielded coax cable<br>(ECOFLEX 10) with N-plugsACU to Modem• 2x Double shielded coax cable (RG6)<br>with F and TNC-plugs  | Operating temperature  | -20°C to 55°C  |
| IP class       IP 30         Compass safe distance       0.5 m according to IEC 60945         Supported modems <ul> <li>iDirect iNFINITI, Evolution, Velocity</li> <li>Hughes HX200</li> <li>ViaSat SBT-M</li> <li>Comtech CDM-250/840</li> <li>Gilat Skyedge II C4</li> <li>Paradise PD25L, Datacom Q-Flex</li> <li>Advantech VR700, VR7400</li> <li>STM Satlink 1910</li> <li>Romantis / Eastar UHP 1000 / UHP 2000</li> <li>others on request</li> </ul> <li>Cables and Connectors</li> <li>ACU to Antenna</li> <li>2x Double shielded coax cable (ECOFLEX 10) with N-plugs</li> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li>   | Storage temperature  | -40°C to 85°C  |
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| Supported modems       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       STM Satlink 1910         Romantis/ Eastar UHP 1000 / UHP 2000       others on request         Cables and Connectors       2x Double shielded coax cable (ECOFLEX 10) with N-plugs         ACU to Antenna       2x Double shielded coax cable (RG6) with F and TNC-plugs  | Humidity   | According to IEC 60945   |
| Modem type       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       STM Satlink 1910         Romantis / Eastar UHP 1000 / UHP 2000       others on request         Cables and Connectors       2x Double shielded coax cable (ECOFLEX 10) with N-plugs         ACU to Antenna       2x Double shielded coax cable (RG6) with F and TNC-plugs   | ·  |  |
| Modem type       -       Hughes HX200         Modem type       -       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> <li>2x Double shielded coax cable (ECOFLEX 10) with N-plugs</li> <li>-</li> <li>2x Double shielded coax cable (RG6) with F and TNC-plugs</li> </ul>   | IP class   | IP 30  |
| ACU to Antenna       2x Double shielded coax cable (ECOFLEX 10) with N-plugs         ACU to Modem       2x Double shielded coax cable (RG6) with F and TNC-plugs  | IP class<br>Compass safe distance  | IP 30  |
| ACU to Antenna       (ECOFLEX 10) with N-plugs         ACU to Modem       2x Double shielded coax cable (RG6) with F and TNC-plugs  | IP class<br>Compass safe distance<br>Supported modems  | IP 30<br>0.5 m according to IEC 60945<br>• iDirect iNFINITI, Evolution, Velocity<br>• Hughes HX200<br>• ViaSat SBT-M<br>• Comtech CDM-250/840<br>• Gilat Skyedge II C4<br>• Paradise PD25L, Datacom Q-Flex<br>• Advantech VR700, VR7400<br>• STM Satlink 1910<br>• Romantis / Eastar UHP 1000 / UHP 2000   |
| ACU to Modem with F and TNC-plugs   | IP class<br>Compass safe distance<br>Supported modems<br>Modem type                          | IP 30<br>0.5 m according to IEC 60945<br>• iDirect iNFINITI, Evolution, Velocity<br>• Hughes HX200<br>• ViaSat SBT-M<br>• Comtech CDM-250/840<br>• Gilat Skyedge II C4<br>• Paradise PD25L, Datacom Q-Flex<br>• Advantech VR700, VR7400<br>• STM Satlink 1910<br>• Romantis / Eastar UHP 1000 / UHP 2000   |
|   | IP class<br>Compass safe distance<br>Supported modems<br>Modem type<br>Cables and Connectors | IP 30<br>0.5 m according to IEC 60945<br>· iDirect iNFINITI, Evolution, Velocity<br>· Hughes HX200<br>· ViaSat SBT-M<br>· Comtech CDM-250/840<br>· Gilat Skyedge II C4<br>· Paradise PD25L, Datacom Q-Flex<br>· Advantech VR700, VR7400<br>· STM Satlink 1910<br>· Romantis / Eastar UHP 1000 / UHP 2000<br>· others on request<br>· 2x Double shielded coax cable |

#### Radome and ACU Dimensions

Antenna Control Unit



For more information visit www.epak.de