

Feed Subsystem	
Reflector diameter	130 cm (51.18")
Minimum E.I.R.P.	40 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	8 W / 16 W / 25 W / 40 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 / Beido 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 (12.75 - 13.5 GHz optional)

Drive Subsystem	
Tracking technology	EPAK® Evo: Electronic Beam Forming (EBF-Gyro) + 3D Rate Gyro + 3D inertial + GNSS
EBF Gyro drift calibration rate	12.5 msec (80 times per sec)
Maximum tracking speed	50°/s (each axis)
Azimuth range	Unlimited
Elevation range	-20° to +120°
Skew range	-120° to +120°
Cross level range	-45° to +45°

Maximum ship motion	<ul style="list-style-type: none"> Roll ±30° @ 9 sec Pitch ±20° @ 9 sec Yaw ±8° @ 12 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. 30 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	-20°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) <ul style="list-style-type: none"> CE (Maritime), ETSI Complies with the specifications of EC directive 1999/5/EC Radio & Telecommunications Terminal Equipment (R&TTE); compliance with EC directive 2006/95/EC, EMC directive 2004/108/EC and IEC 301-427
Compliance	

Power Specifications	
Power supply antenna (ODU)	48 V DC (supplied by ACU)
Antenna input voltage TX (BUC)	25 W BUC and less: 24, 30, 48 V DC / 250 VA (supplied by ACU) 40 W BUC: 48 V / 350 VA (supplied by additional power supply)
Power consumption (ODU excl. BUC)	Up to 180 VA (supplied by ACU)

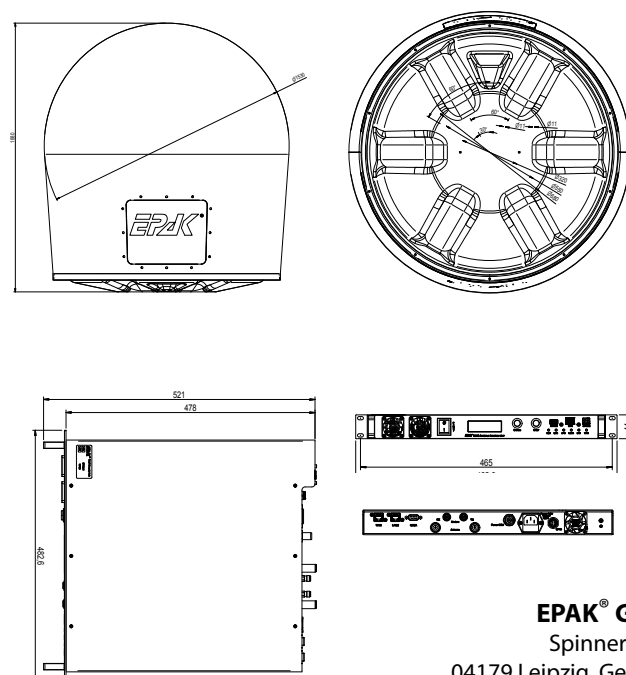
Dimensions and Weight	
Radome (D x H)	153 cm x 168 cm (60.24" x 66.14")
Weight (incl. radome)	120 kg (264 lbs)
Radome material	Honeycomb FRP

Antenna Control Unit	
Dimensions	48 cm x 4.45 cm x 47.8 cm (18.9" x 1.75" x 18.82") (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
External I/O	RS232, RS422, Ethernet, USB, GPIO
Local user interface	OLED 256x64
Modem interface	Ethernet port + GPIO
Modem protocols	openAMIP / SNMP / Telnet / openBMIP
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

Modems implemented	
Modem types	<ul style="list-style-type: none"> iDirect iINFINITI, 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"> 3x Double shielded coax cable (ECO-FLEX 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 crosslink with RJ45 plugs
ACU to Network	<ul style="list-style-type: none"> Ethernet patch with RJ45 plugs RS422/RS232 (9 Pin Sub-D)

Radome and ACU Dimensions



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