

Ri6 - Evo

Stay connected while cruising on inland waterways...



VSAT Evo-Series



Evolution Series

EPAK

Ri6 - Evo

3-Axis Stabilized Maritime VSAT antenna for Ku-Band Services with 60 cm Dish Diameter



Easy installation

Simple 3-wire-coax cable connection between ODU and IDU.

Remote Management Access

Access, monitor and control the Ri6 from every location in the world. Therefore, a lot of automated system diagnostics including event logging can be done.

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.

Secured Traffic

If necessary, the whole traffic can be encrypted

Flexible Networks

Configure three different networks to set variable prioritizations, handle each network separated and set up various user rights.

Modem Platforms

The Ri6 is compatible with various modems such as STM, iDirect, Satnet, Hughes, Paradise Datacom, Romantis...

EPAK® Evolution

Most precise satellite pointing accuracy thanks to the combination of two different tracking systems, an Electronic Beamforming (EBF) Gyro together with a 3D Gyro module.

EPAK®'s answer to the needs of inland waterways: the **Ri6 Ku - Evo**.

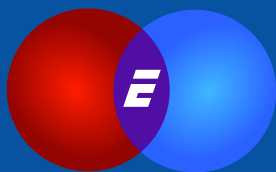
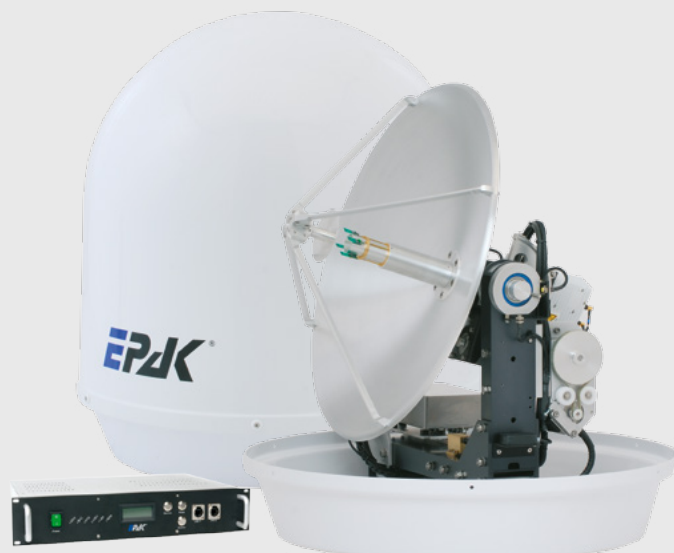
With its optimized tracking and re-lock performance, the Ri6 - Evo ensures best possible online-availability even under the challenging conditions of urban areas. The automated polarization tracking guarantees best link quality wherever the vessel cruises.

Completed with fine-tuned components and the perfect interaction between each single part of the antenna, the Ri6 - Evo guarantees excellent network availabilities both when you are anchored in harbour and when you are sailing in the inland waterways, in any weather condition.

Already operating on several vessels and platforms all over the world, the Ri6 - Evo is the perfect solutions for who is looking for an affordable, smart and light device for the enjoyment of an internet connection at harbours, rivers and lakes.

Ri6 - Evo Benefits:

- **Evolution:** 2 Gyro techniques together for a perfect orientation
- Elevation range from -10° to 90°
- Tracking speed up to $12^{\circ}/s$
- More affordable hardware solution
- Contained weight and dimensions in order to match the needs of every kind of boat, from the smallest to the biggest ones.

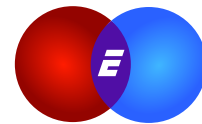


Evolution Series

EPAK®

Ri6 - Evo

3-Axis stabilized maritime VSAT antenna for Ku-Band services
with 60 cm Dish Diameter



Evolution Series

Dimensions & Weight

Radome (D x H)	73 x 81 cm (28.74" x 31.88")
Weight (incl. Radome)	37 kg (81.57 lbs)

Shipping dimensions

Box type	wooden box
With accessories	82 x 82 x 150 cm - 145 kg (32.28" x 32.28" x 59.06" - 319 lbs)
Without accessories	82 x 82 x 104 cm - 93 kg (32.28" x 32.28" x 40.94" - 204.6 lbs)

Reflector & Feed Subsystem

Reflector diameter	60 cm (23.62")
Minimum E.I.R.P.	46 dBW
LNB	Universal (PLL stabilized, internal Ref.)
BUC	Standard Ku (PLL stabilized, external Ref.)
Available BUC power	4 Watt
RX Frequency	10.7 - 12.75 GHz (LOF 9.75/10.6 GHz)
TX Frequency	Standard: 14.0 - 14.5 GHz (LOF 13.05 GHz)
RX/TX polarisation	X-Pol

Drive Subsystem

Tracking sensor	EPAK® Evo: Electronic Beamforming (EBF-Gyro) + 3D Gyro module
Maximum tracking speed	up to 12° /s (each axis)
Azimuth movement	unlimited
Elevation movement	-10° to 90°
Skew movement	Automated ±120° from zero point
Motion system	3-axis servo belt

Power Specification

Power supply	24 VDC via Antenna Control Unit (ACU)
Power consumption	20-40 VA (only ODU), BUC excluded

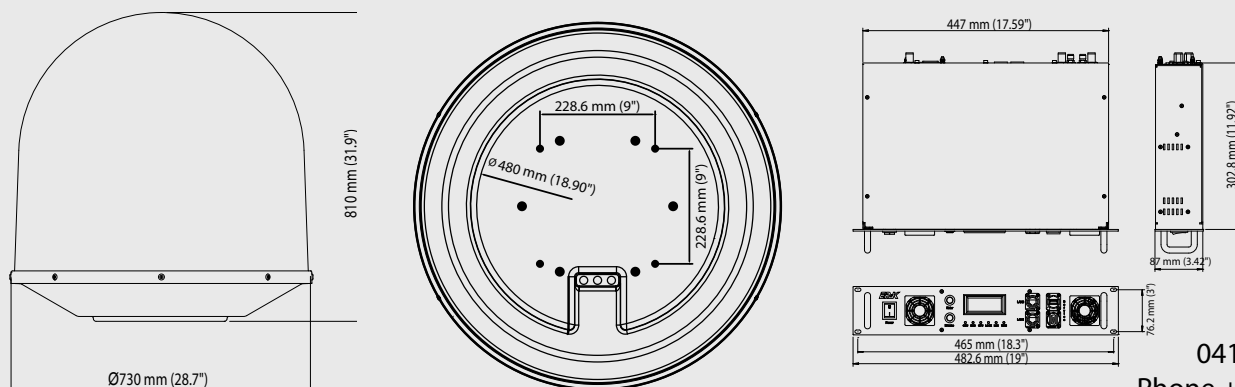
Miscellaneous

Lock on time	typ. 30 sec.
Satellite acquisition	Completely automated by DVB-S2-Receiver and Modem confirmation (according to ETSI 302 340)
EPAK® Diversity-Kit compatible	✓
Operation temperature	-20°C to 70°C
Storage temperature	-30°C to 85°C

Antenna Control Unit

Dimensions	48,3 cm x 9 cm x 37,4 cm (19" - 2RU)
Power supply	220 VAC - 50 Hz
Power consumption	100 VA
Operating temperature	-20° to 70°C
Storage temperature	-30° to 85°C

Radome and ACU Dimensions



EPAK GmbH
Spinnereistr. 7

04179 Leipzig, Germany
Phone +49 (0) 341 2 12 02 60
Fax +49 (0) 341 2 12 02 66

For more information visit www.epak.de