

## 4G system for internet access in coastal areas

Stay connected

4G  
at sea



- Affordable solution
- Resistant to the harsh marine environment
- Optimizes signal reception while at sea

**NeptuLink by MVG brings to your ship high-speed internet access up to 100 Mbps, with ship-to-shore communication in a radius of approximately 20 nautical miles. With its rugged mechanical design, NeptuLink by MVG is made for the maritime environment. Developed with an international and recognized telecommunication laboratory, it takes into account the specific characteristics of radio wave propagation above the sea, as well as the effects of pitching and rolling motions on board.**

### Main features

#### User profile

- For users looking for fast broadband internet access on board ships and various vessels in coastal areas (fishing boats, sail boats, yachts, scientific ships, wind farms, coast guard & sea rescue vessels, etc.) as well as in port areas (video transmission for crane operators, etc.).

#### Maximum data rates\*

- **LTE/4G**  
**Downlink:** Up to 100 Mbps (20 MHz bandwidth), Up to 50 Mbps (10 MHz bandwidth);  
**Uplink:** Up to 50 Mbps (20 MHz bandwidth), Up to 25 Mbps (10 MHz bandwidth)
- **HSPA+**  
**Downlink:** Up to 42 Mbps; **Uplink:** Up to 5.76 Mbps

### Equipment

- Transceiver unit with antennas
- Connectors:  
 1 x power connector  
 1 x LAN connector
- 2 years warranty
- User manual
- Mounting:  
 - installation kit with corresponding screws  
 - 5m power cable  
 - Ethernet cable 5/10/50m (length on request)



#### Did you know?

Current solutions, such as HF or VHF, are either limited in terms of data throughput (~10 kbits/s) or expensive (satellite communications). NeptuLink by MVG allows high-speed connectivity to 4G networks at the same cost of mobile phone data access.

Simply ask your provider for a 2<sup>nd</sup> SIM card!

\* Real data rates depends on your telecom operator

## TRANSCEIVER UNIT

### Frequency bands EU Version

1700 MHz - 2700 MHz

- LTE with MIMO diversity:

- Band 1 (2100 MHz)
- Band 3 (1800 MHz)
- Band 7 (2600 MHz)

- UMTS (WCDMA), HSDPA, HSUPA, HSPA+, DC-HSPA+ with diversity:

- Band 1 (2100 MHz)
- Band 2 (1900 MHz)

### Frequency bands US Version

700 MHz - 2700 MHz

- LTE with MIMO diversity:

- Band 2 (1900 MHz)
- Band 4 (AWS)
- Band 5 (850 MHz)
- Band 13 (700 MHz)
- Band 17 (700 MHz)
- Band 25 (1900MHz)

- UMTS (WCDMA), HSDPA, HSUPA, HSPA+, DC-HSPA+ with diversity:

- Band 1 (2100 MHz)
- Band 2 (1900 MHz)
- Band 4 (AWS)
- Band 5 (850 MHz)
- Band 8 (900 MHz)

- CDMA

- BC0 (Cell. 800 MHz)
- BC1 (PCS 1900 MHz)
- BC10 (Sec. 800 MHz)

Distance from transmitter*	Up to 20 NM
Antenna gain	2 dBi ± 1dB
System weight	1.9 kg (EU version) 2.3 kg (US version)
System dimensions	689 x 156 x 87 mm
SIM Type	Mini SIM (micro & nano SIM accepted with mini SIM adapter)

### POWER SPECIFICATIONS

Power Supply	10 VDC up to 40 VDC POE Available on request
Power consumption:	- Inrush current max at power up: 12W - In operation with Tx max: 8W

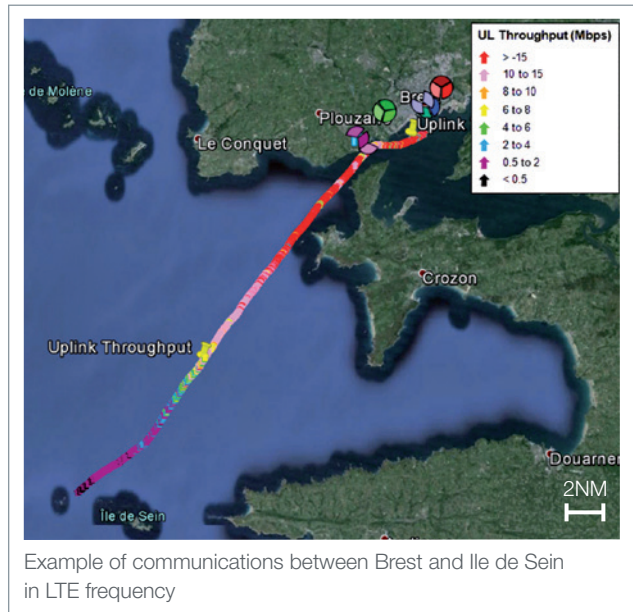
### ENVIRONMENTAL CONDITIONS

Operating temperature	-30°C to +60°C
Storage temperature	-40°C to +85°C
IP protection	IP66

### INTERFACE

Data link	RJ45 GbE Ethernet Port
Pin code & APN configuration	Via web interface

\*Real distance depends on your telecom operator



Example of communications between Brest and Ile de Sein in LTE frequency



NeptuLink<sub>by</sub> MVG US version



Contact your local sales representative for more information

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