



## Long-range 4G LTE antenna

Our new 4G LTE broadband antenna extends the range of mobile Internet connectivity to a new dimension for coastal and inland shipping. With our professional, rock solid, small, light weight antenna, affordable high speed Internet is now available. You can connect to internet all your devices like smartphones, tablets, PCs and other devices you have on board.

The antenna system provides diversity function for better connectivity and higher speed via LTE networks.

Optimization for long-range access will provide excellent connectivity being offshore with high data speed and throughput. The full usability is given by **a one-cable solution**, connecting the antenna device with the control unit.

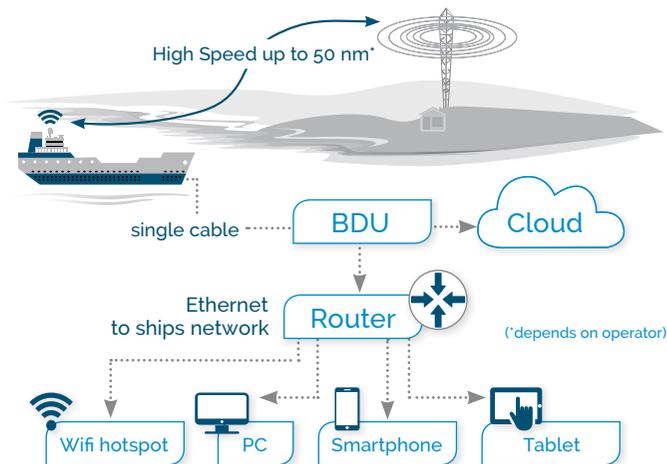
The antenna offers up to 150 Mbit/s download and up to 50 Mbit/s upload speed (upon availability by the provider).

The product is produced under high Quality standards in Germany.



## Why our long-range 4G LTE antenna?

- + Easy Internet Access with regular 4G LTE simcards
- + EASY to install – **single wire installation** using just one standard coaxial cable with 75 Ohm-F- or 50 Ohm N-Connectors, no extra cable
- + UV stable, IR reflecting Radome
- + Radome is sea weather proof
- + Light weight **Diversity- and MIMO-Antenna**
- + Patented, special design, **optimized for long-range access**
- + High Gain and Ultra-wide broadband antenna elements
- + **Low power consumption**
- + Overvoltage / surge protection available
- + Automatic handover from LTE to 3G to 2G upon availability
- + Top speed up to 150MBit/s download and up to 50 MBit/s upload (upon availability and network operator)
- + Can be connected to existing onboard traffic management and routers easily
- + Bonding IPstreams via antennas up to 600 MBit/s
- + Multiple devices can be online at the same time
- + Professional product manufactured under high German quality standards



## Specification Maritime Mobile Terminal

<b>SYSTEM TYPE</b>	LTE (4G) -3G-2G high performance Internet Terminal incl. Antennas, Modem, Router and Firewall
<b>Sub-Systems</b>	Outdoor-Unit (ODU) and Below-Deck-Unit (BDU)
<b>Connection</b>	Single coaxial cable between ODU and IDU

ODU - BASIC MODEL	
<b>Antennas</b>	Diversity plus MIMO Antenna System, Ultra-Wide-Band with RADAR Reflector, Frequency range: 0.1 GHz - 12 GHz
<b>SIM</b>	in ODU
<b>Weight</b>	2.5 kg
<b>Mounting</b>	4 x M8 stainless steel screws (A4)
<b>Size</b>	Diameter 240mm x Height 270mm
<b>Connection to BDU</b>	Single Cable Coax 75 Ohm (RG6) or 50 Ohm LL
<b>Maximum cable length</b>	50 Ohm: up to 300m; 75 Ohm: up to 100m
<b>Power supply</b>	Phantom type, through coaxial cable
<b>Power consumption</b>	5W during operation; 8W peak during power-up
<b>Operational ambient temperature</b>	-45°C - +60°C
<b>Maximum permanent acceleration load</b>	2g (linear vibration)
<b>Maximum peak acceleration load</b>	25g (single shock)

BDU - BASIC MODEL	
<b>Size</b>	170mm x 125mm x 30mm
<b>Weight</b>	600g
<b>Operational ambient temperature</b>	-25°C - +45°C
<b>Power consumption</b>	3W during operation; 5W peak during power-up
<b>Connections</b>	Ethernet 100 Base-T (option 1000 Base-T), DC 15 - 24V, F (optional N) connector (cable from ODU)

### Dutch Marine Technology

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