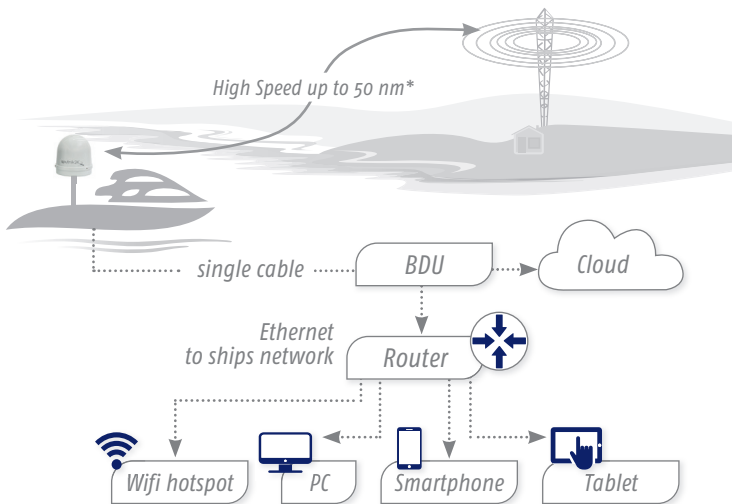


# Why sputnik sputnik24<sup>®</sup>?

- Easy Internet Access **use your own SIM or full package**
- EASY to install – **single wire installation** – just one cable
- UV stable, IR reflecting Radome
- Radome is sea weather and desert 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 upon availability
- 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



(\* depends on operator)

## Coming soon:

### sputnik 24<sup>®</sup> secure bonding – Multiplying bandwidth

- Enhancing of transmission security through multi tunnels
- Single IP address range for onboard equipment
- Extending coverage and availability
- Available as a service or on customer owned installation

## CONTACT

Germany  
sputnik24<sup>®</sup> GmbH is located in one of the most modern media centers of Europe – the media city leipzig.

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# sputnik24<sup>®</sup>

antenna design  
3/4/5 G long range communication  
communication network design



## sputnik24<sup>®</sup> – company profile

sputnik24<sup>®</sup> Communication Systems GmbH is an German company specialized on all kind of antennas and services for communication in our mobile world.

*We are manufacturer of communication products.*

*We offer services and consultancy for wireless mobile communications.*

*We offer training on mobile communication, satellite services and network design.*

## PRODUCTS

- Maritime Mobile Antennas for Long Range LTE
- Land Mobile Antennas for Long Range LTE
- Traffic Management
- Monitoring
- Airtime
- Bonding client server systems

## CONSULTING SERVICES

- Antenna Design
- RF Consulting
- Onboard IT-Network and Security Design
- Fall back / Emergency
- Resilience

## TRAINING

- SatCom / LTE + Connectivity
- Type Approval Assistance
- Data Safety and Privacy Solutions

## sputnik24<sup>®</sup> – products for 4G / LTE Internet Access

Our new LTE broadband antenna extends the range of mobile Internet connectivity to a new dimension on sea and land. Affordable high speed Internet is now available for land mobile users and coastal shipping by a professional, rock solid, small, light weight antenna to surf in the net with all your devices like Smartphone, 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 antennas offering up to **150 Mbit/s** download and up to **50 Mbit/s** upload speed (upon availability by the provider). New generation will enable **500 Mbit/s** up and **1200** download speed (upon availability and network operator). Land mobile and maritime customers get the unique option to use their own SIM cards with no extra costs.

The product is produced under high Quality standards in Germany. The product is patented:  
US patent: 10,677,911 / EU patent: 326 9008



## Specification Maritime Mobile Terminal

MM2 standard | MM2 global

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

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

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