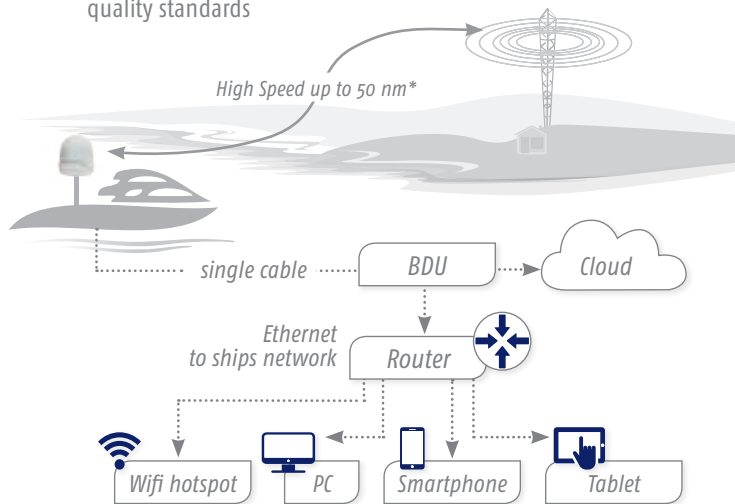


Why sputnik24[®]?

- Easy Internet Access **use your own SIM or full package**
- EASY to install – **single wire installation** using just one standard coaxial cable with 75 Ohm-F-, no extra 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
- 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
- Up to 200 devices can be online at the same time
- Professional product manufactured under high German quality standards



(* depends on operator)

Coming soon:

- Landmobile
 - Systems specially designed for vehicles
- High Throughput Terminal
 - for landmobile and maritime applications up to 600 MBps

CONTACT

Germany
sputnik24[®] GmbH is located in one of the most modern media centers of Europe – the media city leipzig.

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sputnik24[®]

wireless mobile communication
communication network design
antenna design



sputnik24[®] – company profile

sputnik24[®] 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
- Traffic Management
- Monitoring
- Airtime

CONSULTING SERVICES

- Antenna Design
- SatCom On The Move (SOTM)
- Satellite Network Design
- RF Consulting
- Onboard IT-Network and Security Design

TRAINING

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

sputnik24[®] – products for 4G / LTE Internet Access

Our new LTE broadband antenna extends the range of mobile Internet connectivity to a new dimension on sea. 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 antenna offers up to **150 Mbit/s** download and up to **50 Mbit/s** upload speed (upon availability by the provider).

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 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) DC 15 ... 24V F connector (cable from ODU)
Power supply	DC 24V wallmount

Specification

Maritime Mobile Terminal

SYSTEM TYPE	LTE (4G)-3G-2G high performance Internet Access System, 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 - basic model	
Antennas	<p>Diversity plus MIMO Antenna System, Ultra-Wide-Band with RADAR Reflector, High Efficiency, High Gain</p> <p>Perfect suited for 4G/LTE applications in order to get highest throughput and longest distance of operation</p> <p>Frequency range: 0.1 GHz ... 12 GHz</p>
Modem	<p>High performance Universal Band LTE Modem in latest Technology and accordingly to newest standards</p> <p>CE/FCC/TRA/FAC compliant. 3GPP(+) compliant</p>
SIM	ODU
Weight	2.5 kg
Mounting	4 x M8 stainless steel screws (A4), rubber sealed
Radom-Dimension	Diameter 240mm x Height 270mm
Radom-Material	Co-extruded plastic (hybrid layer), UV stable, IR reflecting
Radom-Color	White, surface shining
Connection to BDU	Single Cable Coax 750hm (RG6) or 50 Ohm low loss
Maximum length cable	500hm: up to 300m, 750hm: up to 100m
Power supply	Phantom type, through coaxial cable. Max. 38V DC
Power consumption	5W during operation, 8W peak during power-up
Maximum operational temperature	+55°C (ambient, outside Radome). Direct sun radiation allowed.
Minimum operational temperature	-45°C
Maximum permanent acceleration load	2g (linear vibration)
Maximum peak acceleration load	25g (single shock)
Option additional surge protection	Additional surge/lightning protection (gas-discharge tube) inline coaxial cable at ships hull

BDU - basic model	
Size	170mm x 125mm x 30mm
Mounting option	Al-mounting plate
Weight	600g
Maximum operational temperature	+45°C, ambient
Minimum operational temperature	-25°C
Maximum permanent acceleration load	1.5g (linear vibration)
Maximum peak acceleration load	15g (single shock)
Power consumption	3W during operation, 5W peak during power-up
Power supply	Wall mount socket type, 230V (device is included in delivery), EU std Automatic (thermal) fuse built-in, self healing
Connections	<p>Ethernet 100 Base-T (option 1000 Base-T)</p> <p>DC 15 ... 24V</p> <p>F (optional N) connector (cable from ODU)</p> <p>F - Option for loop through</p> <p>USB 2.0 Master</p> <p>Ground connection point to ships GND</p>

