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 **DELTA**
Electronics

LONG RANGE 4G/5G ANTENNA TERMINAL

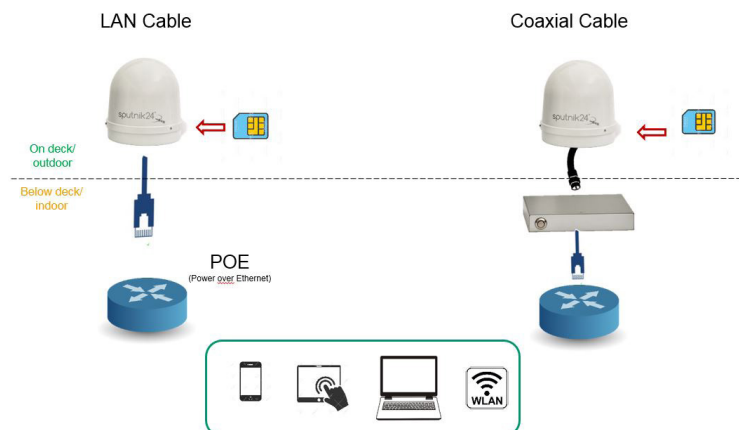
The new LTE broadband antenna terminal extends the range of mobile high speed Internet/Data connectivity to a new dimension on sea and land.

- || Designed for maritime and desert proof application
- || Up to 40 nautical miles (72km) reach
- || Patented design for extra long range
- || High gain & ultra wide broadband (5G ready)
- || High Quality, designed & made in Germany
- || Easy internet access, use your own SIM card or full package
- || Up to 150 Mbit/s download and up to 50 Mbit/s upload
- || Easy to install, single cable (either coaxial or LAN)



TECHNICAL HIGHLIGHTS

- || UV stable, IR reflecting Radome
- || Light weight Diversity- and MIMO-Antenna
- || Low power consumption
- || Overvoltage / surge protection available
- || Integrated Radar reflector
- || Easy connection to existing onboard traffic management and routers
- || Up to 200 users connected at the same time
- || Bonding IPstreams via multiple antennas up to 600 MBit/s (external device)
- || Available in 2 versions:
 - standard coaxial cable to BDU (Below Deck Unit)
 - Ethernet CAT 7 Cable with PoE (Power over Ethernet)




4G/5G RANGE EXTENDER APPLICATIONS

Due to the robust and optimized design the antenna terminal can be used in various vertical applications.

Maritime: As the product was originally designed for the maritime market, it is ideal for all segments, from supply vessels to ferry boats and even cruise ships. Due to its long range, inexpensive mobile networks are still usable in offshore areas where usually only much slower and more expensive satellite communication is used. Due to its size and weight it is also usable on small ships and yachts.

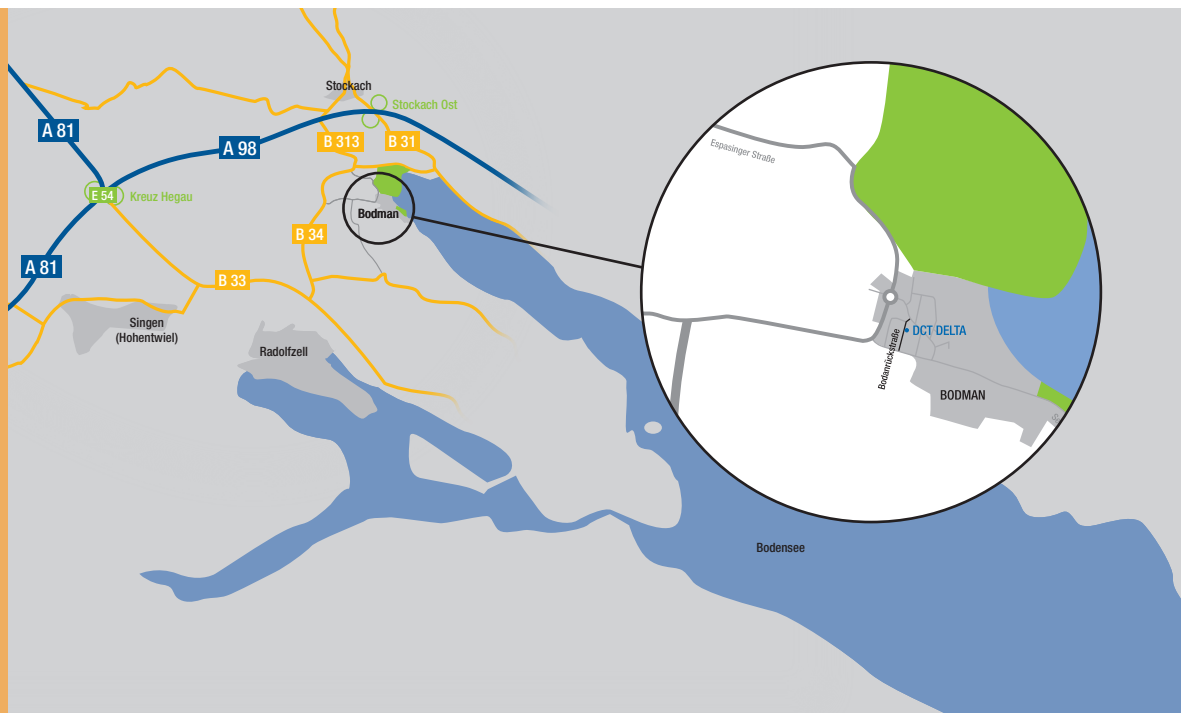
Fixed Mobile: In extrem areas where mobile connectivity is not useable anymore, the terminal allows the extra margin to be „online“. Microwave links can be saved and therefore Islands, remote farms or remote places will be connected very economically without building up specific telecom infrastructure. Also high end IoT applications such as solar and wind farms or maintenance connections (e.g. for ship engines) can be realized.

Land Mobile: Even though Tetra networks are built up for governmental users in various countries around the world, usually data connectivity is becoming more important. The robust design of the antenna is usable on vehicles in rough terrain and therefore police, disaster recovery units or rescue forces can use the product to have easy, extended connectivity on missions.

Maritime	Fixed Mobile	Land Mobile
<ul style="list-style-type: none"> II Merchant Maritime II Passenger Vessel II Fishery II Energy II Leisure 	<ul style="list-style-type: none"> II Mountains II Islands II Agriculture & Farms II IoT (high end) II Wind farms 	<ul style="list-style-type: none"> II Police II Disaster recovery II Rescue II Trucks II Camping mobile
		

System Type	LTE (4G) - 3G - 2G 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, CAT 6 / 7 for PoE Version

ODU - Basic Model		BDU - Basic Model	
Antennas	Diversity plus MIMO Antenna System, Ultra-Wide-Band with RADAR Reflector Frequency range: 0.1 GHz ... 12 GHz	Size	170mm x 125mm x 30mm
SIM	in ODU	Weight	600g
Weight	2.5 kg	Operational ambient temperature	-25 °C ... +45 °C
Mounting	4 x M8 stainless steel screws (A ₄)	Power consumption	3W during operation, 5W peak during power-up
Radom-Dimension	Diameter 240 mm x Height 270 mm	Connections	Ethernet 100 Base-T (option 1000 Base-T) DC 15...24V F (optional N) connector (cable from ODU) F-Option for loop through USB 2.0 Master Ground connection point to ship GND
Connection to BDU	Single Cable Coax 75 Ohm (RG6) or 50 Ohm LL		
Maximum cable length	50 Ohm: up to 300m ; 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)		



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