

# 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

SERVICES	
Remote Access, basic	VPN connection to sputnik24.global servers for user access and monitoring
Remote Access, option 1	VPN to user for remote management, measurement and control
Remote Access, option 2	User interface for remote management of GPIO interfaces via VPN
Positioning services	GPS and GLONAS, free run DGPS via VPN to sputnik24.global
AIS option	AIS receiver, data push-forward via Ethernet

### 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>

