



5G MARITIME BROADBAND SOLUTION

Introducing SailaWave - revolutionary end-to-end wireless connectivity solutions designed for maritime industry. It blends in perfectly with any yacht and ship decor, providing unparalleled 4G/5G radio network for up to 40km from the coast.

Features



Wide Radio Coverage

Reliable long-distance connectivity, approx. 40km from the coast



5G Gigabit Data Throughput

Increased traffic capacity and network efficiency



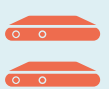
Carrier Auto-switching

Multi-operator enablement to achieve carrier auto-switching



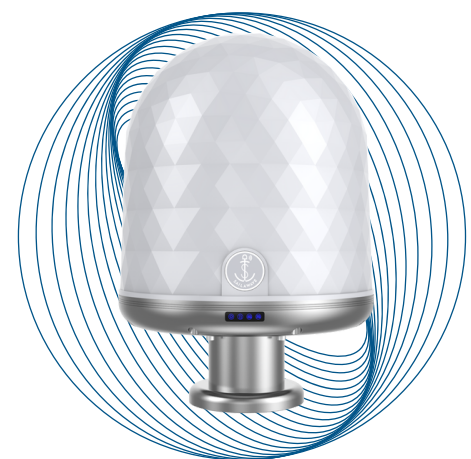
High-gain Antenna Array

High-gain antenna array design to ensure excellent and reliable coverage



2 Modems Link Aggregation

Aggregate bandwidth for higher speed with two modems



5G
/LTE

40KM
Offshore

1.8
Gbps

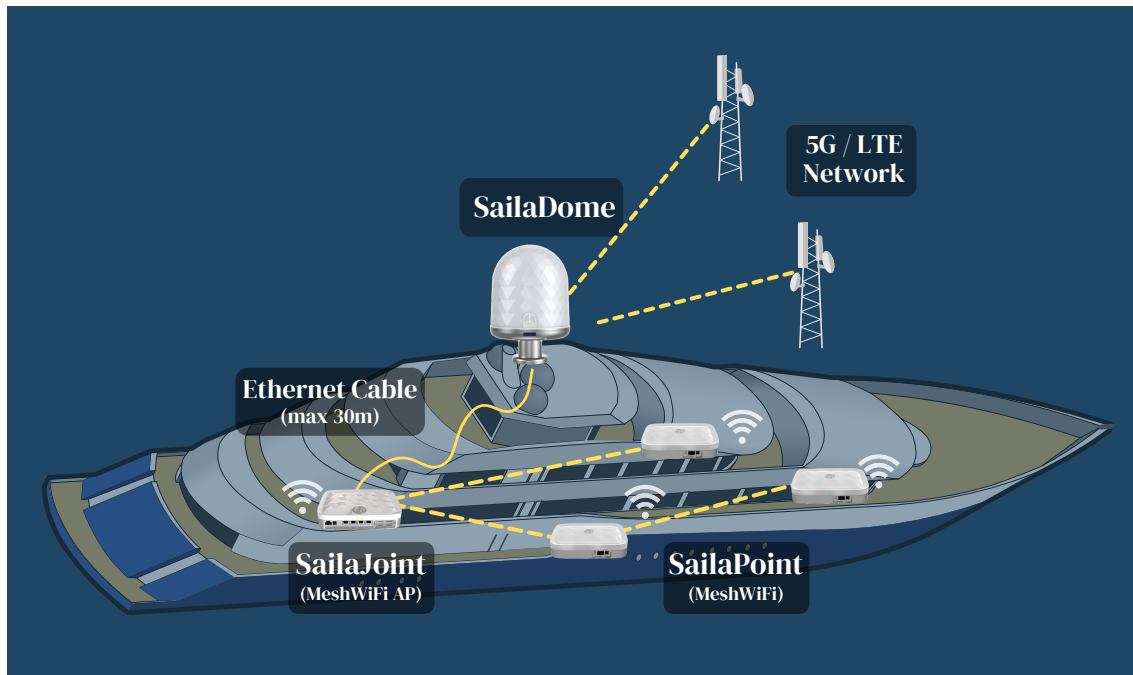
IP
68

GPS

12
SIM Cards
Supported



Cutting-Edge Technology



Tri-sector high gain antenna: The proprietary design with carrier-grade tri-sector antenna panels delivers high gain omnidirectional coverage and supports the full wireless spectrum across high, mid and low-bands. Reliable long-range radio coverage up to 40km* from the coast is guaranteed with patented **TransWave** and **OmniRay** antenna technology.

Auto antenna switching: Proprietary **BeamSteer** algorithm automatically detects the strongest cellular signal and selects the best-performing antennas inside SailaDome. Optimal wireless connectivity is guaranteed at all time.

Multi-SIM selection: Adopting secured IP tunnelling protocol between SailaDome and SailaJoint, the SailaWave system supports up to 12 SIM cards and ensures uninterrupted connectivity during cross-border cruising with alternative roaming options. Built with auto carrier selection capability, SailaDome automatically connects to the best available carrier network that provides the strongest signal.

Unparalleled link throughput: Powered by **LinkFusion** technology and embedded dual 5G modems, SailaDome offers up to 2 times 5G link throughput. Best customer experience is guaranteed with low latency, uninterrupted data transfer, and higher reliability.

Mesh Wi-Fi: SailaJoint (SIM extender) and multiple SailaPoint (Wi-Fi mesh AP) automatically form a Mesh Network to extend connectivity on board. Reliable high-speed Wi-Fi coverage is guaranteed for ships with multiple decks.

Ease of installation: SailaDome supports Power Over Ethernet, requiring single Ethernet cable connection to SailaJoint for both data transmission and power supply.

*Coverage depends on network configuration and many other factors, actual results will vary.



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SailaDome Specification

SYSTEM SPECIFICATION

Region supported	Global (CAT 19) LTE Bands (LTE-FDD) B1/2/3/4/5/7/8/12/13/14/ 17/18/19/20/25/26/28/29 /30/32/66/71 LTE Bands (LTE-TDD) B34/38/39/40/41/42/ 43/48
Cellular Bands	5G Bands n1/2/3/5/7/8/12/13/14/18/ 20/25/26/28/29/30/38/ 40/41/48/66/70/71/75/76 /77/78
Throughput	max. 1.8 Gbps
5G Modem #	2 (Bandwidth Aggregation)
SIM card supported	max 12: 4 (SailaDome) + 8 (SailaJoint)

WIRELESS SPECIFICATION

Antenna Gain	12dBi
Antenna	3 x directional mobile antenna GPS antenna
Antenna Technology	Antenna for high, middle and low band High: 3400-3800MHz Middle: 1710-2690MHz Low: 600-960MHz
Transmit power MIMO	26dBm/channel 2x2

SOFTWARE SPECIFICATION

Routing	Network Address Translation (NAT) DHCP Server IGMP v1/v2
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SOFTWARE SPECIFICATION

Management	Web/Mobile Management GUI Online Firmware upgrade
Throughput enhancement	Modems bandwidth bonding
Antenna Switching	BeamSteer: automatic seamless antenna switching
SIM card Selection	Auto-carrier selection according to GPS location

PHYSICAL SPECIFICATION

Network Connection	1 x 10GE (PoE++IEEE802.3bt)
Operating Temperature	-20 °c ~ 55 °c
Dimension	φ275mm x 390mm
Weight	5.3kg
Power Supply	Power over Ethernet++ IEEE802.3bt
Power Consumption	Max 30W
Installation	Deck Mount
Lightning Protection	TU-T K.21 (+/- 1.5 kV)
EMC Compliance	EN61000,ITU-T K.21
Wind Loading	195 km/h
Ingress Protection	IP68
LED light indicating operating status	POWER SIM 4G 5G



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SailaJoint and SailaPoint Specification

WI-FI SPECIFICATION	SAILAJOINT	SAILAPOINT
Wireless protocol		802.11a/b/g/n/ac/ax
Wi-Fi Channel Bandwidth		Max. 160MHz
Wi-Fi Radio		1 x 2.4GHz + 2 x 5GHz
MIMO		4 x 4 (5Ghz) 2 x 2 (2.4GHz)
Transmit power		18dBm/ch
Mesh Networking		Wireless / Wired
Roaming between SailaJoint and SailaPoints		Seamless roaming
#SailaPoints Supported		max. 4
Management		Web/Mobile Management GUI Online firmware upgrade

PHYSICAL SPECIFICATION	SAILAJOINT	SAILAPOINT
SIM card slot	8 x Mini SIM Slot	-
Status LED	8 x SIM + 1 x RUN + 1 x Wi-Fi	2 x LAN + 1 x Wi-Fi
Network Interface	1 x 10GE (PoE to SailaDome) + 3 x GE	1 x 2.5GE
Dimension (W x D x H)	270mm x 200mm x 50mm	180mm x 120mm x 50mm
Power consumption	<50W (include SailaDome)	<20W
Button		1 x WPS + 1 x Reset
Power connector	Phoenix+DC	DC
Power Input	9-36V	9-18V
VSWR Rated voltage		12VDC
Installation method		Desk / wall mount
Ingress Protection		IP30
Operating Temperature		-5 °c ~ 45 °c
EMC Compliance		EN61000