







Maritime Antennas so far always have conisted of 2 parts: the outdoor antenna unit (ODU) and the indoor equipment unit (IDU). Why? We at traveltronic, never have understood.

We simply decided to make it easier, smarter and more efficient. And why not integrating all electronics inside the radome and adding a GSM router and some batteries to be able to run on emergency power if necessary?

After 3 long years of development the result is now finally available.

Everything you want in one radome. No more hazzel with installation. Simply plug the power cable and you can access the internet by the integrated WIFI with your Smartphone or Tablet PC. **ALL.IN.ONE** the future of maritime communication.

Ultra compact and with only 60 cm reflector, the radom size was consequently reduced down in size to a minimum of only 87 cm (h) \times 72 cm (d) at about 56 kilo weight.

The "ALL.IN.ONE" solution is a 3 axis full Gyro stabilized antenna. It can be operated on ships, vehicles, trains or everything else, which is moving.

"ALL.IN.ONE" means also: The solution does combine GSM & SATELLITE data communication under one compact radome. The combination of satellite & 3G / 4G GSM networks to a hybrid broadband solution, highly integrated, is a real innovation and pays tribute to the emerging bandwith availibility of 4G LTE networks.

So why not use low latency and high speed GSM networks whenever available? While staying connected by Satellite, whenever GSM not covers. traveltronic offers you plans covering more than 500 GSM providers worldwide.

Complex "Fair Usage" or "Shared Flat rate" models are causing user confusion, as they are intransparent. Flatrates who do promise unbelievable high data volumes, have resulted into a lot of "eaten up trust" at end users. We do stop the intransparency with a WIN/WIN "PAY as you GO" tarif model. Easy to understand & Easy to use.

You really need a "Broadband Everywhere" solution and you are tired of the provider jungle, juggling around with USB sticks, SIM cards and GSM contracts? You are tired of expensive V-SAT Installers and systems who not deliver what they promise?

Our "**ALLinONE**" solution will become your new friend!

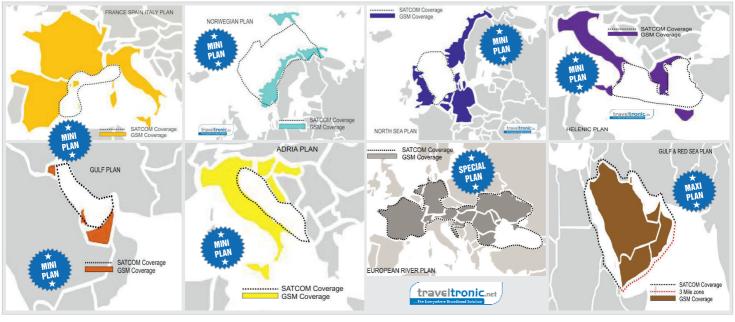
- Please arrange for your personal DEMO. -





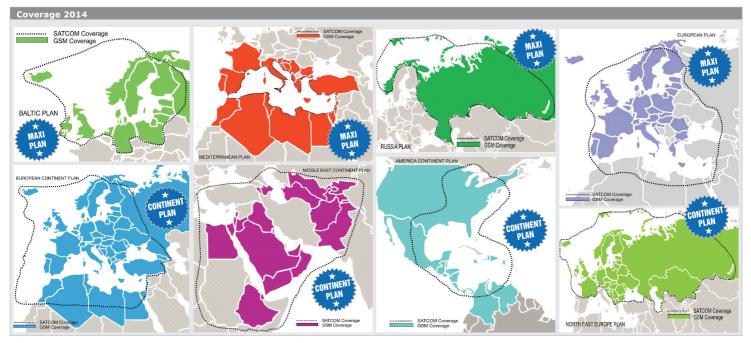


	traveltronic.de	EU VERSION	INT. VERSION	INT. VERSION
G LTE 3G UM	The Everywhere Broadband Solution	T&GSM	T&GSM	T%GSM
General Section:	SATCOM System integrated	✓	✓	✓
	Suited for IP.SNG MEDIA BROADCASTING Services	×	×	×
	ALL IN ONE Feature: FULL COST CONTROL	✓	✓	✓
	ALL IN ONE Feature: SATCOM & GSM	✓	✓	✓
	ALL in ONE Feature: Only power cable required	√	√	√
	PAY as you GO Airtime Rates supported (you pay what you consume with cost airbag)	√	✓	✓
	Data Bandwith Cost airbag/ Portal Notification on Bandwith limit reach	✓	✓	✓
Power Supply:	Operating by Multi Voltage 12-32 Volt (including power supply)	×	✓	✓
	Operating by 24 Volt	√	×	×
	Integrated UPS (buffers system with emergency capeabilities)	×	✓	✓
	Operated by 230 Volt	×	×	×
	Constant Power Consumption (Peak can be higher)	180 Watt	220 Watt	250 Watt
GSM Hardware Section:	Total Number of parallel supported GSM channels (3G & 4G)	1	2	3
	3G GSM UMTS channels supported	1 channel	2 channels	3 channels
	4G GSM LTE channels supported	×	×	1 channel
	Maximum Bandwith via SATCOM & GSM aggregated	15 Mbps	25 Mbps	100 Mbps
	LINK BONDING (Bandwith Aggregation) support	×	√	✓
	SAFE LINK Algorithmus (gets best along with bad GSM networks)	×	×	✓
	BEST LINK Detect Algorithmus (chooses the best link automatically)	×	×	✓
	Optional support of customer owned and operated SIM cards	×	×	✓
SATCOM Hardware Section:	Number of maximum parallel supported Sessions via Satcom	3000	3000	30000
	Number of maximum parallel supported Satellites	1	1	1
	Satcom Parameter Change (in case required)	automatic	automatic	automatic
	included satcom transmitter	3 Watt	4 Watt	4 Watt
	Maximum Satcom Upstream Data Rate	256 kbps	512 kbps	1 Mbps
	Maximum Satcom Downstream Data Rate	4 Mbps	4 Mbps	16 Mbps
	60cm antenna under PVC Plastic Radom included	✓	✓	✓
	70cm antenna under Honeycom Fiber Glass Radom included	×	×	×
	6 piece segmented carbon fiber glass reflector included	×	×	×
	NO Ship Compass for fast tracking required	✓	✓	✓
	NMEA required via Ships compass	×	×	×
	1:1 system redudancy	×	×	×
Operational area	EUROPE Continent Coverage	✓	✓	✓
	AMERICA Continent Coverage	×	×	×
	EUROPE & MIDDLE EAST Continent Coverage	×	×	✓
	EUROPE, AMERICA & MIDDLE EAST Continent Coverage	×	×	×
	Multi Satellite Coverage by roaming Support	×	×	×
IP Features:	Layer 2 Direct BRIDGING ("Switch like")	×	×	✓
	IP.V6 prepared	×	×	✓
	IP Redundancy Backup Port for additional terrestric line	×	×	×
	Integrated WIFI HotSpot	×	✓	✓
	Ethernet LAN 1 Interface	✓	×	optional available
	Harbour Network access by WIFI with bandwith aggregation	×	✓	✓
Product Availibility:	European Union (CE Approved)	✓	×	×
	International Version, for useage outside the European Union only	×	✓	✓
rage 2014	RANCE SPAINITALY PLAIN	TCOM Coverage		
	RANCE SPAIN ITALY PLAN NORWEGIAN PLAN SA GS	TCOM Coverage M Coverage	36'4	SATCOM Coverage









<u>COVERAGES</u>: traveltronic offers the **ALL.IN.ONE** solution operational within different coverage areas. We offer **CONTINENTAL - MAXI - MINI** and a **SPECIAL PLAN** for European Rivers. Thanks to geocoordinate billing, we can offer different price structures, depending from your coverage requirements. Each plan, includes besides the dotted line SAT coverage also the GSM side in those countries highlighted in colour. Moving from one to another plan is possible. We always try to enlarge our coverage. Please contact us, in case you do have specific needs and requirements, or want to operate your fleet on our revolutionary **ALL.IN.ONE** concept, to cut down your communication costs and boost up your performance experience.

andards	Frequencies supported by traveltronic GSM ready systems	supported channels XG4 LOW COST EU	supported channels XG4 LOW COST INT	supported channels XG4 FULL VERSION
Total number	Total number of GSM Modems (indepentant from Standard), integrated into system	1	2	3
EDGE/GPRS/GSM	Standard: 850, 900, 1800, 1900 Mhz	1	2	3
HSPA/HSDPA/HSUPA	Standard: 800, 850, 900, 1900, 2100 Mhz	1	2	3
LTE	Standard: 800,1800, 2600 Mhz/ Optional also 900 and 2100 Mhz or: 700, 2300, 2500 Mhz (for certain countries only)		-	1
Antenna Gain	Integrated 3G GSM Antennas	Standard 3 dBi CE Approved	High Power 15 dBi - International Version	High Power 15 dBi - International Version
3G UMTS COVERAGE	Expected 3G GSM Coverage Range	Visualized area - 5km = 3.1 miles	Visualized area - 5km = 3.1 miles	Visualized area - 5km = 3.1 miles
Antenna Gain	Integrated 4G GSM Antennas (MIMO)			High Power 11 dBi - International Version
4G LTE COVERAGE	Expected 4G GSM Coverage Range	not supported	not supported	Visualized area - 20 km = 12.4 miles
Antenna Gain	Integrated WIFI Antennas (MIMO)	not supported	High Power 8 dBi - International Version	High Power 8 dBi - International Version
HOTSPOT COVERAGE	Expected WIFI 2.4 Ghz Coverage Range	not supported	Visualized area, 1km = 0.6 miles	Visualized area - 1km = 0,6 miles
	Total number EDGE/GPRS/GSM HSPA/HSDPA/HSUPA LTE Antenna Gain 3G UMTS COVERAGE Antenna Gain 4G LTE COVERAGE	Total number FOGE/GPRS/GSM Standard: 850, 900, 1800, 1900, 1900 Mhz HSPA/HSDPA/HSUPA Standard: 800, 800, 900, 1900, 2100 Mhz LTE Standard: 800, 800, 1800, 2600 Mhz/ Optional also 900 and 2100 Mhz or: 700, 2300, 2500 Mhz (for certain countries only) Antenna Gain Integrated 3G GSM Antennas Antenna Gain Integrated 4G GSM Coverage Range Expected 4G GSM Antennas (MIMO) Antenna Gain Integrated 4G GSM Coverage Range Expected 4G GSM Coverage Range Expected 4G GSM Coverage Range Expected 4G GSM Coverage Range HOTSPOT Expected 4MG SAM Coverage Range	Total number Total number of GSM Modems (indepentant from Standard), integrated into system 1 EDGE/GPRS/GSM Standard: 800, 300, 300, 1000, 1000 Mhz 1 HSPA/HSDPA/HSDPA/HSUPA Standard: 800, 800, 800, 900, 1000, 1000 Mhz LTE Standard: 800, 800, 600, 900, 1000, 1000 Mhz Antenna Gain Integrated 36 GSM Antennas Integra	Total number Total number of GSM Moderns (Indepentant from Standard), integrated into system 1 2 EDGE/GPRS/GSM Standard: 86, 900, 1800, 1900, 1900, 1900 Mbt 1 2 HSPA/HSDPA/HSUPA Standard 800, 900, 1900, 1900, 1900 Mbt IT Standard 800, 1900, 1900, 1900, 1900, 1900, 1900 Mbt IT Antenna Gain Integrated 45 GSM Antennas Antenna Gain Integrated 45 GSM Antennas (MMMO) Antenna Gain Integrated 45 GSM Antennas (MMMO) Antenna Gain Integrated 46 GSM Coverage Range Antenna Gain Integrated Wilf Antennas (MMMO) Integrated Wilf Antennas (MMMO) Integrated Wilf Antennas (MMMO) Integrated Wilf Antennas (MMMO) Integr





ALLinONE XG 4 LOW COST EU VERSION ALLinONE XG 4 LOW COST INT. VERSION

ALLinONE XG 4 FULL INT. VERSION

Antenna specification

Dish Diameter Antenna Dimension Antenna Weight Radome Material Transmitter (BUC) Low Noise Block (LNB) Controller & Modem Operating Platform / Speed Quick Mounting Plate Wind deployment Temperature operational

0.61 m (24") 0.87m (H) x 0.72m (D) Plastic

Universal KU Band BUC 3 Watt (limited to 1,5 Watt) internal PLL LNB 11,3 Ghz LO 3-Axis / more than 90°/sec

included 180 km/h -20°C ~ +50°C Up to 100% at 40°C



0.61 m (24") 0.87m (H) x 0.72m (D) 59kg Plastic

Universal KU Band BUC 4 Watt internal PLL LNB 11,3 Ghz LO internal

3-Axis / more than 90°/sec included 180 km/h -20°C ~ +50°C Up to 100% at 40°C



0.61 m (24") 0.87m (H) x 0.72m (D) 59kg Plastic

Universal KU Band BUC 4 Watt internal PLL LNB 11,3 Ghz LO internal

3-Axis / more than 90°/sec included -20°C ~ +50°C Up to 100% at 40°C



Power specification

Humidity

Voltage imput range Average operational power input Total power requirements recommended Battery Uninterruptive Power Supply UPS

24 Volt, 7 Ampere 180 Watt operational, 200 Watt peak

24 Volt Traction Battery with recommended min 250 AH

12-32 Volt (can be operated by 24/12 V battery) 24 Volt, 9 Ampere / 12 Volt, 20 Ampere 220 Watt operational, 320 Watt peak

12 or 24 Volt Traction Battery with recommended min 250 AH BUILT IN - up to 90 min SATCOM and 120 min GSM

12-32 Volt (can be operated by 24/12 V battery) 24 Volt, 10 Ampere / 12 Volt, 21 Ampere

250 Watt operational, 350 Watt peak 12 or 24 Volt Traction Battery with recommended min 300 AH BUILT IN - up to 90 min SATCOM and 120 min GSM

GSM & WIFI specification

Wi -Fi HOT SPOT GSM UMTS (3G)

GSM LTE (4G) Max. Bandwith TOTAL IP Routing Features traveltronic user portal access Harbour Network access by WIFI 1x UMTS/HSDPA/HSUPA (800/850/900/1900/2100 Mhz)

15 Mbps Built In

802.11 b/g/n (2400 Mhz) 2x UMTS/HSDPA/HSUPA (800/850/900/1900/2100 Mhz)

25 Mbps LINK BONDING Built In Built In

802.11 b/g/n (2400 Mhz) 2x UMTS/HSDPA/HSUPA (800/850/900/1900/2100 Mhz) channels

+ 2 optional private SIMCARDS 1x LTE (800/1800/2600 Mhz) channel

100 Mbps LINK BONDING/ SAFE LINK/ BEST LINK/ LAYER 2 Support Built In

SATCOM specification

1:1 Redundancy Support

Number of supported parallel sessions Frequency
Max. Satcom Upstream Data Rate Max. SatcomDownstram Data Rate Satellite Roaming Support Automatic Satcom Parameter Change NMEA Compass of Ship Requiered EUROPEAN CONTINENT Plan AMERICA CONTINENT Plan MIDDLE FAST CONTINENT Plan EU, AMERICA & ME CONTINENT Plan recommended not higher than 3000 IP Sessions RX: 12.25 to 12.75 Ghz/ TX: 13.75 -14.5 Ghz

4 Mbps

automatic not necessary, but recommended

supported not supported not supported not supported not supported recommended not higher than 3000 IP Sesions RX: 12.25 to 12.75 Ghz/ TX: 13.75 -14.5 Ghz

4 Mbps

automatic

not necessary, but recommended

supported not supported not supported not supported not supported over 30000 IP Sessions

RX: 12.25 to 12.75 Ghz/ TX: 13.75 -14.5 Ghz

16 Mbps

yes, optional support possible with Roaming Server

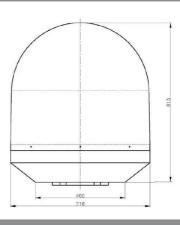
automatic not necessary, but recommended

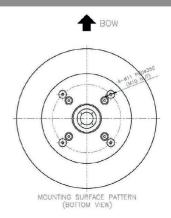
supported not supported supported supported not supported



Our ALL.IN.ONE solution is based on components from KNS Korea:

KNS





Quick and easy installation in 5 Steps only:



1.st Step Installation of the base plate directly on a suited position on your ship.



2.nd Step Lift the ALL IN ONE to the base plate. The only step, where 2 persons are necessary.



3.rd Step Adjust the antenna to the bow and close all screws.



Connect the power cord to the 12 to 32 Volt source and the power connector to the ALL.IN.ONE



5.th Step Wait 10 minutes for the radome to boot and build up connections.



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