



TNF
M O B I L E

Product information: Router, Amplifier & SIM

Connectivity made available *anywhere*.
Stationary, Mobile and Moving.

initiated and developed by
TNF Mobile BV

4G
COMPLETE
SOLUTION



The Product

About 10 years ago, there was a need to have a very reliable ad-hoc data connection to extend the secure network of the public safety offices to mobile 'offices' which were temporarily placed at an incident. So we have designed a router that bundled multiple high speed 3G links together in a fat pipe. Automatically all data is secured in a VPN.

We also decided we needed a way to reach more remote cell towers. Reaching further than normal possible. Therefore, we decide to produce a 3G amplifier ourselves. By producing a combiner amplifier 4-1 we achieved to reduce the number of external antennas by a factor 4, resulting in much lower installation costs in a ship; for the same costs you have a much better signal capable of reaching remote cell towers.

The Company

TNF Mobile is an independent network operator delivering high quality data services worldwide. With our global coverage of over 700 operators in more than 200 countries, our business partners benefit from guaranteed services at the best price. We are specialists with focus and therefore offer a unique portfolio based on clear agreements and a simple distribution model.

Thanks to our volumes and our purchasing power, we have very competitive prices from which you can benefit. Our customers only pay for actual consumption, without surprises or hidden costs.

Our Web based portal enables business partners to fully manage their own customer base for both orders and changes. This portal also offers versatile insight and reporting on behavior and consumption.



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Non-disruptive connectivity *anywhere*.
Reliable, high bandwidth network connectivity.



The router allows multiple connections in one box to support each other. When one line fails, the other lines keep the connection alive. Redundancy is the way to remain online, no matter what. Supports mobile broadband, satellite, WIFI and ethernet. The 19" router is offered with a dual power supply.



The amplifier boosts signal reception for your connections to be strong, no matter where you are. Extends your connection with the Mobile Cell Tower up to 50 km. off shore. And often reaching way further.



Our SIM enables to roam freely from carrier to carrier, making sure you always pay the best tariffs without extra charges.



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The Router

bonds every type of internet connection into one with high availability and high bandwidth. This ensures a fixed line experience over a mobile infrastructure.

utilizes multiple and different internet links and automatically connects over the best possible link (=lowest latency) without disrupting applications.

maintains applications and sessions whilst roaming over different networks and infrastructures. A truly unique feature!

deploys easily: set up and ready to use in minutes. Remote maintenance and support, means no local IT expertise required. Different models available, manufactured in Germany.





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The Amplifier

combines multiple (max. 4) mobile broadband 4G/3G links over 1 antenna. Nb. 4G is MiMo based so actually 2 antennas, working as one.

increases virtually the reach of mobile operators over land (2x) and over water surface (4x) up to 40 km. This ensures excellent connectivity under the worst conditions.

improves up- and downlink signals to achieve higher bandwidths and higher responsiveness. A fixed line experience over mobile networks.

ensures 100% compatibility with any operator network, no network disruptions, and therefore totally invisible by the mobile operators.

supports 6 LTE bands ranging from 700 to 2600 MHz. Especially the 700, 800 and 900 MHz band are important for marine applications. Can be remotely monitored (Cloud and/or App) and managed.

has proven itself in many installations in Europe.





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The SIM

Supports multiple local operators per country

Offers local and roaming redundancy in 200+ countries

Crosses borders, local roaming against best rates

Supports unlimited data-volume per SIM

Is serviced remotely, one service for all networks

Premium non steered 4G throughput

Access by IoT portal for managing operations and SIMs

Fully managed and secured SIM Card

White label possibilities





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The router enables the ship to have several mobile broadband links established. The individual links add up to achieve high bandwidth.

The amplifier extends the reach of mobile operators dramatically, making sure that the connections in the router maintain the strongest possible signal. Additionally realizing the lowest latency which make the overall solution act as if it is a fixed line, like DSL or Cable.

The (eUICC) SIM stays connected whenever a ship crosses a border and enters into the reach of a new, local data network.

Each aspect adds a new layer of resilience on top of the other, this ensures a high speed, high bandwidth connection at *any time*.



MOBILE

Achieving excellent connectivity and bandwidth *anywhere*'

Our product range ensures an extremely high return on investment most often in just a couple of months. The total cost of ownership decreases by enabling more services.

Our router is developed with as less as possible end-user configuration necessary. Insert or activate the SIM's and connectivity is established, from remote the real configuration can be done. Where ever you are.

The SIM's, the router and the amplifier together create a very flexible solution for customers in maintaining data connections over cellular infrastructures in remote areas. The amplifier supports volume data connections to the horizon. We have seen ship installations perform up to 75 km from the coastline. This all depends on how high a cell tower is up to the coast installed and how high the cellular antennas at the ship are mounted extending the normal horizon reach of about 40 km to much more as mentioned above.

**Our established customers all agree on one thing:
Our solution provides carefree, reliable connectivity**



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Achieving excellent connectivity and bandwidth *anywhere*'

Projects where our solution has made its impact:

- Inland Shipping
- River Cruises
- Superyachts
- Port Authorities
- Short Sea
- Luxury Yachts
- Video Surveillance
- Public Transport
- Field Service & Power Utilities (Netherlands, Germany)
- Police & Fire Departments (Netherlands, Belgium, Germany)



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