bluewireless

MARITIME CONNECTIVITY

LTE/5G Connectivity for Maritime and Nearshore Industries

WIRELESS ONBOARD

Transforming Maritime and nearshore connectivity with LTE/5G

Reliable connectivity is essential in any organization regardless of where it operates. With more business applications turning to the cloud, internet access needs to be always-on, consistent, and cost-effective whether you are on land or at sea.
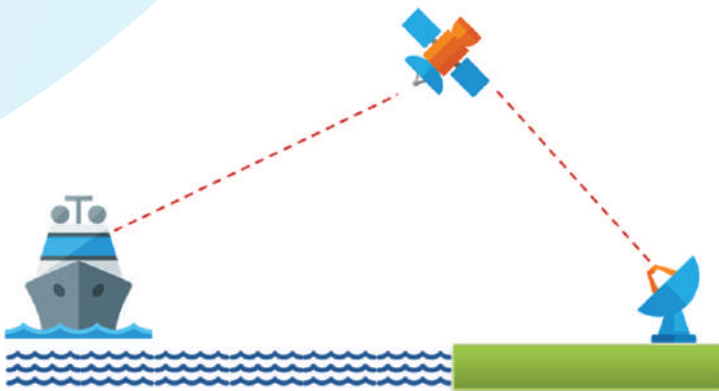
With the arrival and evolution of LTE/5G technology, nearshore communications are becoming more accessible and affordable than ever. And with the right technology partner, implementation and operations, a breeze.

Why LTE/5G for Maritime operations?

While satellite technology continues to be ideal for offshore connectivity, new applications are hungry for bandwidth and can put pressure on existing satellite links and IT budgets.

When in the open sea, satellite is the only communications option	When closer to shore (<50nm) LTE/5G offers higher speeds (up to 100Mbps) and lower cost

By adding wireless LTE/5G as a connectivity option when operating nearshore, your business will benefit from:

Significantly lower data costs

Higher speeds and increased reliability

More communications flexibility

Better reliability for new applications and IoT integration

Improved crew and passenger WIFI

MARITIME LTE/5G NETWORK SOLUTIONS

We remove all complexity across all the required steps: from product selection, staging, and installation to ongoing management and support.

Multiple Roaming Operators

Blue Wireless offers a range of data plans covering all LTE networks worldwide, and our shared data pool plans help you reduce costs by sharing allowance across multiple vessels.

Cloud SD-WAN Management

All network devices are controlled centrally using Cradlepoint NetCloud. This enables fleet owners to manage devices, usage, and access remotely without the need for onboard IT staff.
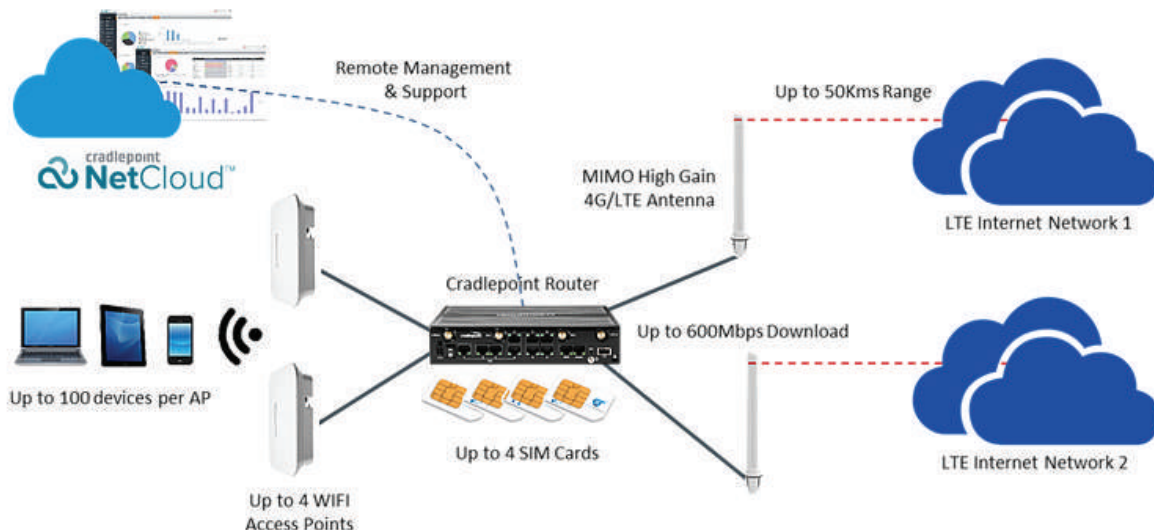
Cradlepoint LTE/5G Ruggedized Routers

Cradlepoint Edge Devices enable high-speed connectivity and advanced SD-WAN capabilities, ideal for load balancing with satellite or connecting devices and networks on board. In addition, routers are IP rated to withstand adverse conditions, such as humidity, vibration, and heat to avoid downtime.

Professional Services

By working with Blue Wireless, businesses get the complete package: solution design, hardware staging, testing, and configuration, in addition to our network of field engineers to help deploy and install equipment on board.

Satellite and LTE/5G Integration

Blue Wireless integrated solution allows vessel owners to optimize both satellite and LTE/5G traffic using a single platform, all centrally managed through NetCloud.

Poynting Maritime Antennas

We provide you with omnichannel, weather-resistant Poynting antennas for maritime environments, enabling long-range connectivity to cell towers onshore. These include brackets and cabling to ensure reliable connectivity.

NetCloud

Remote Management & Support

Up to 50Kms Range

MIMO High Gain 4G/LTE Antenna

LTE Internet Network 1

Cradlepoint Router

Up to 600Mbps Download

Up to 100 devices per AP

Up to 4 SIM Cards

LTE Internet Network 2

Up to 4 WIFI Access Points

"SAILOR"-MADE EQUIPMENT

Reliable cloud-managed devices for on-board connectivity.

Cradlepoint edge devices are the cornerstone of any maritime implementation, offering high reliability and functionality in ruggedized form factor suitable for harsh weather environments.

Cradlepoint IBR 900
Compact
Ruggedized Router

Dual-SIM | Heat, Dust, Splash & Shock Resistance

Cradlepoint IBR 1700
Ruggedized Advance
Dual Modem Router

Dual Modem | Heat, Dust, Splash & Shock Resistance

Cradlepoint R1900
Ultra-high Performance
5G Router

5G 5G-Optimized | Dual Modem

Making wireless happen

Poynting high-gain omnichannel antennas are specifically designed for the harsh environments at sea, where UV, water, and salt spray protection is critical for the antenna's performance. Below are tested and proven maritime antennas models deployed worldwide.

Poynting MIMO-3 Series
Multi-Purpose
Omni-Directional
Fin Antenna

4G LTE/4G

IP-Rated

WiFi

GPS

Poynting OMNI-403
Marine Quality, Low
Profile Omni-Directional
Rod Antenna

4G LTE/4G

IP-Rated

Poynting OMNI-402
IP-Rated High
Performance Wideband
Rod Antenna

4G LTE/4G

UV & Saltwater Protection

SUCCESS STORIES

A wide range of customers across the maritime industry is already benefiting from Blue Wireless solutions. From enabling passenger WIFI to supporting critical applications, these are only a few examples that illustrate the flexibility of LTE/5G for maritime use.

Near Shore Connectivity for Barges

About: Rocktree offers logistics services using tugboats and barges in the SEA region.

Solution: Blue Wireless enabled high-speed internet connectivity with Cradlepoint IBR 900 (rugged design ideal for shipping environment), long-range antennas for connectivity in Indonesian waters, and load-balancing with satellite system.

Results: Low-cost solution for nearshore connectivity, achieving increased network availability and enhanced service uptime.

Enabling Passenger WIFI

About: Sydney Harbour Ferries operates dozens of ferries across the Sydney area.

Solution: Blue Wireless enabled high-speed internet connectivity with Cradlepoint AER 2200 Dual Modem, connecting both to Optus and Telstra 4G/LTE networks simultaneously. Additional work includes the setup of antennas and wiring, integrated with onboard WIFI system.

Results: High-speed, low cost solution with no onboard maintenance required.

A Better Crew WIFI Experience

About: Carnival Corporation is the world's largest travel leisure company, with a fleet of over 100 cruise line vessels.

Solution: Blue Wireless deployed a complete crew WIFI solution using Cradlepoint IBR 1700 Dual Modem for high-speed connectivity. Together with Poynting's long-range antennas and WIFI access points, the solution enables crew WIFI for up to 200 users simultaneously up to 50km from shore.

Results: All-in-one solution, not disrupting any satellite passenger WIFI, and offering a hassle-free, fully managed WIFI service for staff at a fraction of the cost of satellite.

YOUR FUTURE IS WIRELESS

Why Blue Wireless for the maritime industry?

Hands-on Global Deployments

To get a fast and "right-first-time" deployment on board, the Blue Wireless team will be there at every stage – from configuration and staging to onboard installation and final handover.

We Bring It All Together

From ruggedized, IP-rated routers and the best available maritime antennas to providing access to multiple roaming operators and shared data plans – all packaged within a managed service model of design, installation, management, and support.

Cloud-based Management

All Blue Wireless devices are centrally managed through NetCloud. This means dozens of vessels can be configured and managed in one go with full network management monitoring and visibility by a central network team. Even when disconnected from NetCloud, devices operate independently to offer onboard continuity.

A Partner Who "Knows the Ropes"

Blue Wireless has extensive experience implementing LTE/5G solutions on vessels, and we know first-hand the practical complexities of managing all elements to ensure trouble-free implementations, reliable connectivity, and enhanced performance on board.

LET'S TALK

Reach out to our team of experts to learn more about our services and explore how we can leverage LTE/5G to transform your business.

✉ **enquiries@bluewireless.com**

🌐 **www.bluewireless.com/maritime**

in **www.linkedin.com/bluewirelessglobal**

ABOUT BLUE WIRELESS | Headquartered in Singapore with offices across Asia Pacific, Europe, and the US, Blue Wireless offers network solutions for enterprises in over 80 countries globally.

We leverage LTE/5G technology to increase flexibility and reduce operating costs for our customers in a wide range of industries and use cases, ranging from retail and branch connectivity to remote and maritime solutions. With over 1,500 customer deployments completed, we have extensive experience in the design, deployment, and management of global solutions, supporting your business for a wireless future. Blue Wireless is a Cradlepoint Elite Partner and sole distributor for Cradlepoint in Asia through its subsidiary **Go Wireless**. Learn more: **www.bluewireless.com**