

Private Networks

Delivering transformation for ports.

As UK ports race to embrace a smarter future, high-performance wireless connectivity is playing a critical enabling role in supporting operational continuity, cost reduction and competitive advantage. A built-for-purpose Cellnex Private Network delivers the speed and assurance you need to seamlessly connect your assets, equipment and people.

It's not about being the biggest port but the smartest. An increasing array of data-enabled automated, robotic and remote control applications offer exciting opportunities for Port Authorities to better serve the needs of ship owners and operators, cargo terminal customers and logistics partners – while at the same time boosting sustainability and making hazardous environments safe.

It's all possible thanks to the security and guaranteed connectivity of a single, dedicated 4G/5G Private Network that you control.

A private, dedicated network assures data security, removes the capacity and contention issues of WiFi and mobile networks, and delivers round the clock connectivity.



Delivering digital transformation, innovation and competitive advantage

Mission-critical communications

Guaranteed, always-on connectivity to Terminal Operating System (TOS)



Increase safety

Remove humans from dangerous areas with Augmented Reality (AR), Virtual Reality (VR) and Digital Twin



Robotics

Undertaking hazardous tasks, boosting productivity, maximising efficiency



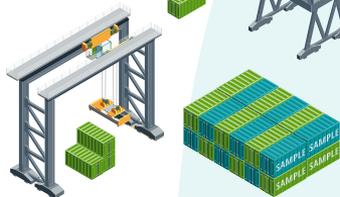
Remote-control

Control and monitoring of container cranes and vehicles



Location tracking

Efficiently and automatically manage truck queues to speed loading/unloading



Environmental sensors

Asset and infrastructure insights to reduce emissions and improve air and water quality

Logistics control

Analyse marine cargo and dock-side freight for security and streamlined operations



Video surveillance

Aerial and marine drones for inspections and measurements

Features and Benefits

- **Purpose-built 4G/5G network** delivering the coverage and capacity you need, where you need it
- **Low-latency, high bandwidth connectivity** guarantees always-on performance, eliminates outages and assures operational continuity
- **Secure and private**, restricting access from outside and delivers data protection and compliance as standard
- **Offers opportunities to deploy automation, AI or robotics** to increase efficiency, streamline operations and reduce cost
- **Delivers the ability to track and monitor assets and employees** to increase site and worker safety
- **Managed by a single, experienced partner** to cut through the complexity, deliver a bespoke solution and eliminate investment risk

Why Cellnex?

As a Critical National Infrastructure Provider and one of Europe's leading telecommunication companies, Cellnex is trusted by enterprises, the emergency services and mobile network operators.

Working together with Edzcom, a market-leader and wholly owned subsidiary of Cellnex, our solutions provide an assured answer to the connectivity challenges of a rapidly evolving Industry 4.0 world.

To find out more about Private Network solutions, contact our experts at: PrivateNetworks@cellnextelecom.co.uk