

Empowering Industry 4.0: Private LTE/5G Transforms Wireless Networks

As businesses navigate the transition to Industry 4.0, the pressure on wireless networks intensifies, promoting a reevaluation of existing solutions. The key lies in embracing private wireless LTE/5G technology, ready to meet the escalating demands of this transformative era.

A seamless and high-quality internet connection emerges as the primary value and driver

Uninterrupted Connectivity



On-the-Go Connectivity

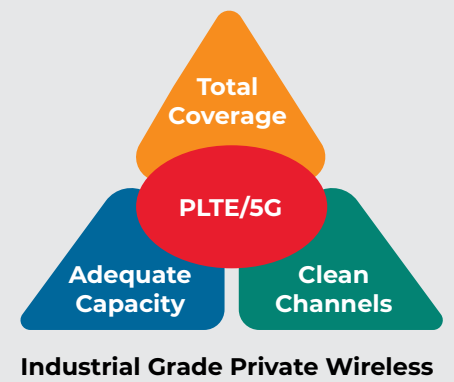
Continuous access to vital data, documentation, and multimedia tools for uninterrupted workflow.



Seamless Networking Experience

Immediate and persistent connectivity, eliminating the need for activating tethering or navigating through Wi-Fi authorizations.

Why PLTE/5G is the answer



Demand for Superior Connectivity



Real-time Access to Critical Information

The ability to retrieve **extensive information** in **emergencies** or **unreliable Wi-Fi environments**.



Enhanced Security

Fostering **advanced security measures**, including threat hunting, and **reducing risks associated with public Wi-Fi vulnerabilities**.



Compact Computing Power for Versatile On-Site Applications

Unleashing **enhanced computing capabilities** in a more compact form factor, **unlocking the potential for on-site operations**. This encompasses CAD visualizations, genomics computations, and AI-driven security features like continuous identification.



Plain Talk about Private LTE/5G

At the forefront of wireless connectivity, Private LTE/5G stands out for its unique integration of the reliability and quality found in LTE signals, coupled with the cost-effectiveness and user-friendly attributes associated with Wi-Fi. This distinctive combination, along with its advanced capabilities in security and mobility, positions Private LTE/5G as a superior choice when compared to Wi-Fi in terms of ease-of-use, security, and significantly reduced operating costs.

Wi-Fi Challenges

Let's delve into the drawbacks of Wi-Fi. While suitable for low-demand settings, Wi-Fi reveals limitations in high-demand environments. The issues become evident: unacceptable latency (starting at 100ms and escalating with user count), cumbersome mobility (handoffs between IDFs struggle beyond a slow walk), security vulnerabilities (especially when private devices mingle with critical equipment), and the need for an excessive amount of equipment and wiring for Wi-Fi to function effectively.

Private LTE/5G Superiority: Benefits Over Wi-Fi

Private LTE/5G stands out by overcoming the inherent flaws associated with Wi-Fi. Offering superior coverage, lower latency, and improved mobility, Private LTE/5G surpasses Wi-Fi in various aspects. Notably, it enhances operational security, providing a significantly higher Quality of Service. System administrators can seamlessly transition critical network elements, like data storage and collaborative applications, from Wi-Fi, enhancing communication between devices, processes, monitoring, and collaboration capabilities.

One of the key features of Private LTE/5G is its state-of-the-art security, achieved through the implementation of private LTE on a dedicated, secure, and cutting-edge high-quality network. Sensitive data remains secure in-house, utilizing SIM-based authentication. Secure and swift hand-offs between Access Points (APs) further reinforce the robust security framework.

An added benefit is the notable reduction in wiring and network gear requirements, with a potential ratio of 1:4. This reduction translates to cost-effective installation, reduced complexity, and significantly diminished redundancy costs, making Private LTE/5G a compelling choice over traditional Wi-Fi setups.

Private LTE/5G: Seamless Functionality without Wi-Fi's Limitations — Elevating Connectivity in Every Aspect

ABOUT BLACK BOX

Elevate your enterprise with Black Box®, a leading IT solutions provider that goes beyond traditional limits. Our expertise lies in delivering state-of-the-art technology products and top-tier consulting services across the globe in every industry. Pioneering innovation, Black Box is positioned to drive your success, especially in the dynamic arena of Private LTE/5G solutions.

