

Hughes Secure 5G Standalone Solution Offers a Local Edge Cloud with LEO and GEO Connectivity

Introducing the Hughes Secure 5G Standalone Solution, a private 5G network with local management, local edge Cloud, and integrated security features. Deployable in almost any location – a campus, a warehouse or on a marine platform – including the most remote and rural locales, Hughes Secure 5G Standalone powers high capacity wireless connectivity securely on off-the-shelf smart phones, tablets, PCs, sensors, routers and more. For resilient range extension, the solution backhauls seamlessly over one or more wide-area transports including fiber, Low Earth Orbit (LEO) and Geostationary (GEO) satellites.



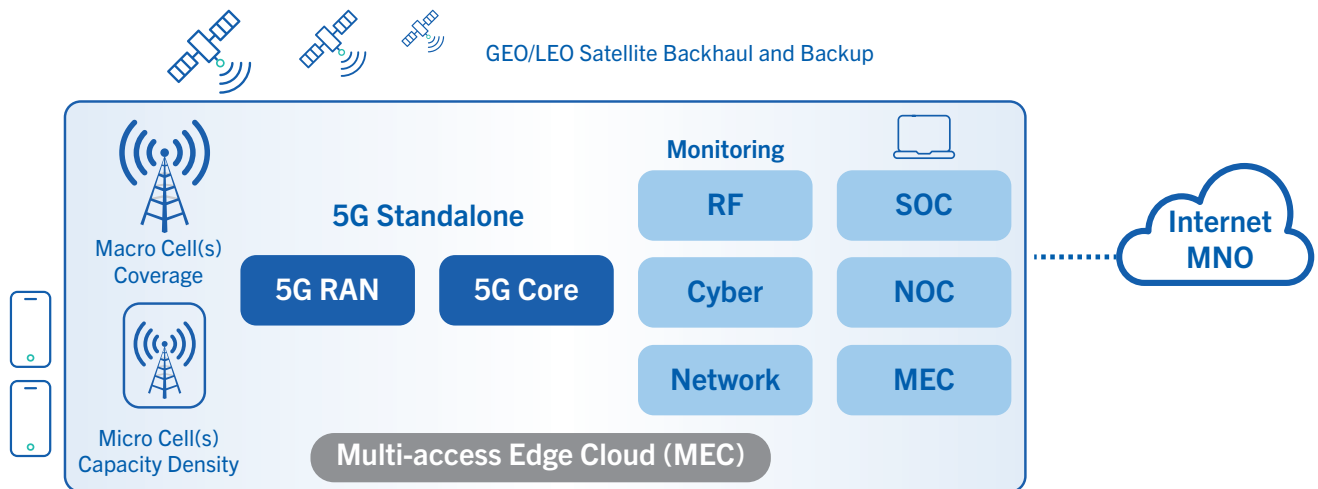
Leveraging 3GPP and Open RAN standards, Hughes Secure 5G Standalone integrates a software-defined 5G Core with open Radio Access Network (RAN) technologies and a complete cellular network. The light, portable and energy efficient network core activates a wide-radius cellular bubble, enabling always-on 5G connectivity within its designated footprint with data rates exceeding hundreds of Mbps and latency in the 15 ms range, making it ideal for delay sensitive applications.





The fully integrated solution comes complete with network management capabilities – whether on-site or remote – including reporting and trouble ticketing, as well as Security Operation Center (SOC) tools to enable security scans, firewall configuration, intrusion prevention and detection, and security incident and event monitoring. Remote Network Operation Center (NOC) and SOC support are also available, minimizing operations expertise required at remote sites.

Customizable to meet capacity, security, price and performance criteria, Hughes Secure 5G Standalone scales from a single transportable half-rack to multiple racks for baseband equipment and utilizes Intel x86 computing servers to accommodate hundreds to thousands of user devices.

Applications

Connecting sensors, handheld devices, manpacks, fixed sites, land mobile and maritime platforms, Hughes Secure 5G Standalone enables applications including: local and enterprise collaboration tools, video conferencing, Augmented Reality (AR) and Virtual Reality (VR) with embedded software that automates routine network, operations and security management functions. Military and commercial implementations span indoor and outdoor spaces such as runways, warehouses, logistics centers, and factories for permanent and/or on-demand deployments.



			
<p>Ultra-portable</p> <ul style="list-style-type: none"> • Small, full featured, commercial-grade cellular network • Integrated router, firewall, apps server • Satellite antenna with integrated modem(s) • Packaged in transportable half racks with standard power connections 	<p>Interoperable</p> <ul style="list-style-type: none"> • Seamlessly connects with most consumer cellular devices and 3gpp standards compliant 5G devices on industry standard frequencies • Preloaded with secure and approved software modules and versions • Out-of-the-box support for collaboration, conferencing, voice, video and selected AR/VR 	<p>Plug-and-Play</p> <ul style="list-style-type: none"> • Based on open standards • Extends comms capabilities across multidomain landscape • Compatible with tactical mesh and line of sight radio nodes • Compatible with beyond line of sight (BLoS) LEO and GEO systems for range extension 	<p>Cutting Edge</p> <ul style="list-style-type: none"> • Features and capabilities continuously enhanced • Artificial Intelligence (AI) and Machine Learning (ML) for automation • Local multi-access edge Cloud (MEC) for next generation low latency applications • Upgradable as commercial cellular standards evolve (i.e., 6G)

Technology Features

- 3GPP 5G Functions Release 16
- Autonomous Standalone 5G Core
- Standalone RAN
- Multi-Access Edge Cloud (MEC)
- Open RAN Compliance
- RAN – Centralized Unit
- RAN – Distributed Unit
- RAN – Radio Units and Antenna
- Interoperable with multiple LEO and GEO satellite systems, including OneWeb and Hughes JUPITER™ High-Throughput Satellite fleets
- Network Operations Center (NOC) Tools – Fault, Accounting, Performance, Security
- Zero Trust Architecture (ZTA)
- Commercial Solutions for Classified (CSfC) capable
- Integration with Element Managers
- Management Protocols: SNMP, XML/REST, JSON/REST, Netconf
- Reporting, Trouble Ticketing, Device Status
- Security Operations Center (SOC) Tools for malware, scanning, and incident monitoring
 - Splunk
 - Nessus
 - Firewall

Visit www.hughes.com/secure5G to learn more.

