THALES

Thales Defense & Security, Inc.



Products

22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

DRAKON
Multiband 5G

Military-Grade Standalone Private 4G–5G System





The DRAKON Multiband 5G Dome is a fully self-contained private cellular network that delivers fast, secure 4G LTE and 5G connectivity in TDD/FDD modes in a single compact unit. With Integrated RAN and Core Network, it provides a true "network-in-a-box" capability for rapid, on-the-move and quick-halt operations.

Engineered for flexibility, the system supports coverage from short-range tactical bubbles to multi-kilometer areas, making it ideal for quick-halt setups, vehicle-mounted missions, and mobile field operations. A streamlined GUI enables fast configuration with minimal training. Its wide multiband support ensures global operability and broad UE interoperability, giving users maximum freedom across diverse environments. The system's dynamic band scanning further enhances resilience by avoiding or countering active jamming.

The DRAKON 5G ecosystem includes an eSIM as a service for simple onboarding of users and provisioning of Private Networks. This system is compatible with DRAKON or private 5G systems. DRAKON Instant Connect adds an innovative Zero-Trust eSIM provisioning method that requires no prior user onboarding — ideal for dynamic, critical tactical missions where speed and security are paramount. Together, these capabilities make the DRAKON 5G system a globally deployable, highly adaptable, and security-focused private 5G solution built to support warfighters in modern military operations.

ITAR Controlled

Capabilities

Key Features

- Integrated 4G/5G Platform — All-in-one multiband 3GPP-compliant system with fully integrated Radio and Core functions.
- Frequency Scanning — Continuously measures per-frequency occupancy and detects interference to optimize channel selection.
- Interference Management — Automatically configures the system to operate on available frequencies for improved resilience.
- Concealment Mode — Masks cell-tower identity to reduce adversarial targeting while preserving full private 5G connectivity.
- Flexible Backhaul Options — Supports multiple transport layers (EDGE-Lite, commercial 4G/5G, commercial or military SATCOM, tactical radios) to share services across private 5G domes.
- CodeMettle GUI — Simple easy to use GUI for rapid deployment with minimal training.
- Seamless Mobility — Users can move between private 5G networks without changing device configurations.
- eSIM as a Service: Simple onboarding of users and network provisioning for Private 5G.
- DRAKON Instant Connect — Eliminates the need to pre-provision IMSIs, enabling rapid onboarding of unplanned users (drones, tablets, smartphones, allies, etc.).
- Radio Intelligent Controller (RIC) — Lite-AI-driven frequency and power control, dynamically optimizes radio resources to boost cell-edge performance and reduce inter-bubble interference.

Technical Specifications

Physical Parameters

Length: 11.40 in

Width: 4.50 in

Depth: 6.50 in

Weight: ~11 lbs

Power: 12 to 38V DC

Waveforms/Modes of Operation

Power Consumption: <60 W

Transmit Power: Adjustable up to 2 W above 1 GHz and 1 W below 1 GHz frequencies

IP Class: IP65

Operating Temperature: -40 °C to +55 °C

Environment: MIL-STD 1275 and AECTP 300

Connectivity

Standard: 4G (3GPP Rel16), 5G (3GPP Rel17)

Features: Slicing, LTE-M, NB-IOT, QoS enforcement for MCX Apps

Max Active Users: 50 simultaneous users and up to 500 registered users

Range: 3.5km at 0.5 W power LOS at 2.5 GHz

Throughput: up to 70 Mbps DL 40 Mbps UL

Frequency Bands

FDD: 700 (b28/n28*); 800 (b20/n20*); 850 (b5/n5*, b26/n26*); 900 (b8/n8*); 1800 (b3/n3*); 2000 (b65/n65*); 2100 (b1/n1*); 2600 (b7/n7*)

TDD: 2300 (b40/n40*); 2600 (b38/n38*); 3300 (b52*); 3500 (b42*); 3600 CBRS (b48/n48*); 3700 (b43*); 3300–3800 (n78*); 3300–4000 (n77*)

Channel Size

FDD: 2x5 MHz, 2x10 MHz, 2x15 MHz 2x20 MHz

TDD: 5 MHz, 10 MHz, 20 MHz

Dennis Crossen
Director, Product Management

Dennis.Crossen@thalesdsi.com
C: (240) 308-4666 | O: (240) 864-7310

CERTIFIED
ISO 9001 · AS 9100

Specifications are subject to change without notice.

Thales Defense & Security, Inc.
22605 Gateway Center Drive | Clarksburg, MD 20871
TF: +1.800.914.0303 | P: +1.240.864.7643
solutions@thalesdsi.com | www.thalesdsi.com

072026:V1

Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification in this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or service. Copyright © 2026 Thales