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Thales Defense & Security, Inc.

2026 Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

DRAKON

Multiband 5G Dome

Military-Grade Standalone Private 4G–5G System



The DRAKON Multiband 5G Dome is a fully self-contained private cellular network delivering fast, secure 4G LTE and 5G connectivity operating 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 any private 5G system. DRAKON Instant Connect adds an Innovative Zero-Trust eSIM provisioning method that requires no prior user onboarding — ideal for dynamic, security-critical tactical missions where speed and security are paramount. Together, these capabilities make the DRAKON 5G a globally deployable, highly adaptable, and security-focused private 5G solution built for modern operational demands for the warfighter.

ITAR Controlled

Technical Specifications

Physical Parameters

Length: 11.4"

Width: 4.5"

Depth: 6.5"

Weight: ~11 lbs

Power: 12 to 38V DC

Waveforms/Modes of Operation

Power Consumption: <60W

Transmit Power: Adjustable up to 2W above 1GHz and 1W below 1GHz 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 0.5W power LOS
at 2.5GHz

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

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 unused 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.
- > E-SIM as a Service: Simple onboarding of users and network provisioning for Private 5G.
- > DRAGON 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

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Specifications are subject to change without notice.

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