

**KATIM VEHICULAR SDR**

ADAPTIVE OPERATIONAL MESH COMMUNICATIONS

ADAPTIVE. RESILIENT. CONNECTED.

**RESILIENT OPERATIONAL MESH COMMUNICATIONS**

KATIM Vehicular SDR is a sovereign-grade software-defined radio platform engineered to enable resilient operational mesh communications across mobile, distributed, and mission-critical environments. Designed for adaptive operational coordination and trusted communications continuity, it enables resilient connectivity between moving operational nodes across dynamic and degraded operational environments.

Built for operational resilience and mobile deployment scenarios, the platform integrates software-defined radio architecture, multi-band operational communications, MANET capability, and embedded encryption to help organisations maintain trusted operational coordination, continuity, and control in dynamic operational environments.

OPERATIONAL CAPABILITIES

Operational Mesh Connectivity	Adaptive mesh connectivity across mobile and distributed operational environments.
Resilient Operational Coordination	Communications continuity across changing, degraded, and infrastructure-limited environments.
Adaptive Communications	Software-defined radio architecture supporting flexible operational deployment scenarios.
Mobile Operational Resilience	Resilient coordination between moving operational nodes.

TECHNICAL SPECIFICATIONS

Platform & Physical	- Software-defined radio (SDR) architecture - Vehicular and mounted deployment capability - Compact high RF power module design - Rugged operational platform - MIL-STD 810 and MIL-STD 461 compliant
Connectivity & Networking	- MANET supported - Point-to-point and operational mesh communications - Dual-channel operational communications - Ethernet interface for data and management - Embedded encryptor module
Radio & Waveform Capability	- Operating frequency: 30 MHz to 2700 MHz - RF output: 100W V/UHF, 50W L/S - PSK and OFDM waveform support - 2x2 MIMO configuration - Narrowband and wideband operational support
Operational Deployment	- Designed for mobile and distributed operational environments - Adaptive communications across changing operational conditions - Resilient operational coordination support - Trusted communications continuity across mobile operational nodes
Management & Control	- Software-defined operational configuration - Operational communications orchestration - Flexible deployment and platform integration