RACOM

Defence Industry

TRUSTED COMMUNICATION FOR CRITICAL MISSIONS

For decades, our wireless communication products for critical infrastructure have stood at the forefront of technology – and it was only natural that they found their way into the defence sector. In 2025, we made this focus official, launching a new line of embedded data radios alongside our proven portfolio. Built on the same foundation that has always driven us – technical excellence, precision, and reliability.

BUILT FOR CRITICAL OPERATIONS

- 30 years of experience in critical communications
- Deployed in 130+ countries
- Proven in scale

100 % CZECH DESIGN & MANUFACTURING

- Research & Development
- Assembly and testing
- Long-term lifecycle support

SECURE BY DESIGN

- SW developed in-house
- AES-256-CCM encryption
- Adaptive frequency hopping

EUROPEAN PARTNER IN DEFENCE INNOVATION

- Stable privately-owned company based in the EU
- Active in Czech and NATO innovation initiatives
- Ready for integration and OEM solutions

RACOM

www.racom.eu

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Our technology powers data links for unmanned systems, telemetry, and backbone IP networks — in both line-of-sight and non-line-of-sight conditions. Always secure, resilient, and reliable.

Unmanned Systems (UxV: air, land, sea)

- Unified network for both UAV and UGV
- 4.1 Mb/s throughput, dynamic routing
- No need for base stations
- Interference detection and frequency hopping
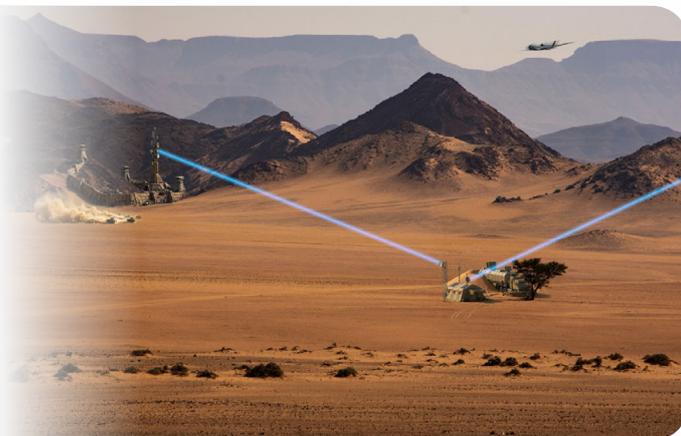
WaSP
Embedded Data Radio

High-speed backbone up to 10 Gb/s

- Temporary or emergency connectivity for command centers
- Microwave point-to-point links, line-of-sight operation
- Rapid deployment, vehicle-mounted installation
- Antenna rotator for continuous alignment

RAy
Microwave Link with Remote Rotator

IP backbone without line of sight

- Interconnection of DMR base stations
- Long-range operation in VHF/UHF bands
- AES-256, IPsec, OpenVPN, RADIUS
- Vehicle-mounted, low power consumption

RipEX
Radio Router

Telemetry and surveillance networks

- Perimeter protection and motion detection
- Telemetry and intrusion monitoring
- VHF/UHF bands with AES-256 encryption
- Mesh networking with dynamic routing and retransmission

RipEX
Radio Router