



Marine Secure Platform

Complete network management, security, and compliance for modern maritime operations.

Network Management

Cyber Security

E26 Compliance

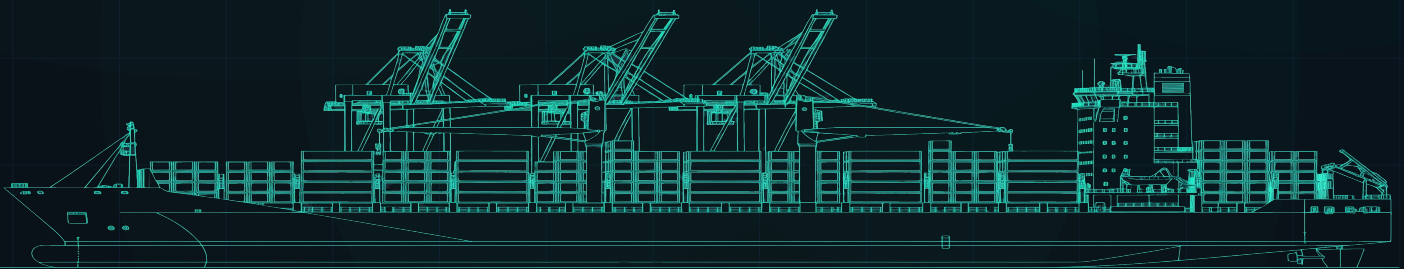
Satellite Integration

Edge Computing

Cloud VoIP

KEY CAPABILITIES

- WAN failover & load balancing across multiple satellite links
- In-line IDS/IPS with VPN blocking & hourly threat intelligence updates
- IACS E26 compliance reporting with automated asset inventory
- Crew WiFi captive portal with bandwidth control & payment gateway
- Starlink & OneWeb API telemetry, health monitoring & performance analytics
- XDR: Correlated network IDS + endpoint EDR telemetry
- Edge hypervisor with high availability & remote VM management
- Cloud-based VoIP for vessel-to-shore communications
- Multi-tenant platform with granular RBAC



Securing Every Mission
Powering Every Vessel

01 Network Management

Comprehensive tools for managing complex maritime network infrastructure across multiple WAN links.

Core Network

- WAN failover & intelligent load balancing
- Data threshold-based WAN cutoff
- Unlimited VLANs & network segmentation
- Multi-table routing & traffic control
- Real-time multi-WAN health monitoring
- QoS prioritization for critical ops

Crew WiFi Portal

- Captive portal with per-WAN PIN mgmt
- Self-signup with payment gateway
- Auto-renewal & batch provisioning
- Per-user bandwidth & data caps
- Daily, weekly, and monthly plans
- Live usage dashboard & top-up

Firewalling & DNS

- Separate crew & business rule sets
- Granular per-WAN firewall policies
- Domain & IP-based traffic filtering
- Category-based DNS content filtering
- Malware & phishing domain blocking
- Per-network custom DNS policies

Data Counters & NetFlow

- Per-interface LAN-to-WAN counters
- Aggregated bandwidth across all links
- Individual WAN link breakdown
- Historical graphs & trend analytics
- Real-time traffic flow analysis
- Behavioral anomaly detection

Remote Access

- Access onboard RDP, SSH & web interfaces
- Manage routers, switches & access points
- Secure encrypted tunnel from platform

Alerts & Monitoring

- Cable disconnect & link failure alerts
- Real-time network health dashboards

02 Security & Compliance

Multi-layered protection from network edge to endpoint, with integrated compliance reporting.

01 Network Protection

IDS / IPS

Network IDS/IPS

In-line intrusion prevention with hourly threat intelligence updates.
Detects and blocks unauthorized VPN usage across crew and business networks.

Real-time Analysis

Hourly Updates

VPN Blocking

02 Endpoint Protection

EDR

Host-based EDR

Integrated with ESET EDR for comprehensive endpoint detection and response,
providing deep visibility into host-level threats and suspicious activities.

ESET Integration

Host Monitoring

Threat Response

03 Extended Detection & Response

XDR

IDS + EDR Correlation

Correlation of network IDS and endpoint EDR data for unified threat visibility,
enabling rapid detection of advanced threats that span network and host layers.

Unified Visibility

Cross-Layer Detection

Correlated Alerts

03 E26 Compliance

Automated compliance reporting aligned with IACS UR E26 requirements for maritime cyber resilience.

E26

IACS UR E26 Compliance

- Correlation of Tiers 3, 4, 5 data
- Security & risk management metrics
- Class-suitable compliance report
- Hardware asset inventory
- (automated / PCAP / manual entry)
- Software/firmware asset inventory
- Documentation & schematic upload
- Purdue Model-based topology
- Live vulnerability listing
- Risk report & compliance scoring

* Compliance scoring is currently in pipeline

04 Platform & Access Control

Centralized multi-tenant management with role-based access control and full audit logging.

Audit Trails

Complete audit trails for all platform actions
PAM access for L2 support
Temp admin credentials

Multi-Tenant

Secure data segregation between fleets
Fleet-level isolation
Secure multi-fleet mgmt

RBAC

Granular role-based access controls
L1, L2, Management roles
Custom permission sets

05 Satellite Integration

Real-time satellite telemetry, health monitoring & performance analytics via Starlink and OneWeb APIs.

Starlink Telemetry

- Starlink API telemetry & monitoring
- Dish health, uptime & obstruction data
- Per-terminal throughput & latency stats
- Real-time signal quality metrics

OneWeb Telemetry

- OneWeb API telemetry & monitoring
- Terminal status & beam handover data
- Per-link bandwidth & latency stats
- Real-time connectivity diagnostics

06 Edge Computing

Onboard hypervisor with high availability for deploying and managing virtual machines remotely.

Hypervisor & VM Management

- High-availability hypervisor cluster
- Deploy & manage VMs remotely
- Start, stop & snapshot instances
- Remote console access to VMs
- Resource monitoring & allocation

07 Cloud VoIP

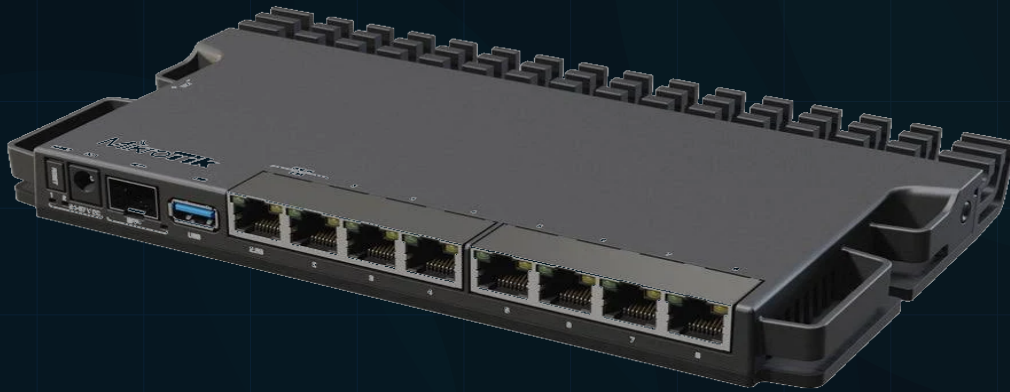
Cloud-managed voice communications for vessel-to-shore and inter-vessel connectivity.

Voice Communications

- Cloud-managed PBX system
- Vessel-to-shore voice calls
- Inter-vessel communications

Hardware

Built by MikroTik – the RB5009 is a ruggedized, high-performance router designed for demanding environments.



RB5009 Specifications

- MikroTik RB5009UPr+S+IN router
- Quad-core ARM64 CPU @ 1.4 GHz
- 1 GB DDR4 RAM / 1 GB NAND storage
- 7× Gigabit PoE-in/out ports

Connectivity & Build

- 1× 2.5G Ethernet + 1× SFP+ 10G
- Dual redundant power (DC + PoE-in)
- Fanless design, -40°C to +60°C range
- DIN-rail & rackmount ready

Contact Us
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