

KATIM



KATIM SATCOM EPM MODEM

(ELECTRONIC PROTECTIVE MEASURE MODEM)

RESILIENT SECURITY, RELIABLE CONNECTIVITY



UNLEASH THE POWER OF SECURE CONNECTIVITY, ANYWHERE

KATIM Satellite Communication EPM Modems are indispensable tools for organisations that require secure, resilient, and reliable communication in environments where threats such as jamming, interference, or cyber-attacks are prevalent. By investing in these advanced technologies, organisations can safeguard their operations, ensure data integrity, and maintain continuity even in the most challenging conditions and hostile environments.



WHY CHOOSE KATIM SATELLITE COMMUNICATIONS EPM MODEMS?

RESILIENCE AGAINST JAMMING AND INTERFERENCE

KATIM SATCOM EPM modems are designed to function in high-risk, tactical environments where conventional communication methods may fail due to jamming or interference. This is particularly vital for organisations that operate in hostile or contested regions.



ENHANCED SECURITY AND DATA PROTECTION

With robust encryption and secure transmission protocols, KATIM SATCOM EPM Modems ensure that data-in-transit and sensitive information remains confidential and protected from adversaries or unauthorised access.



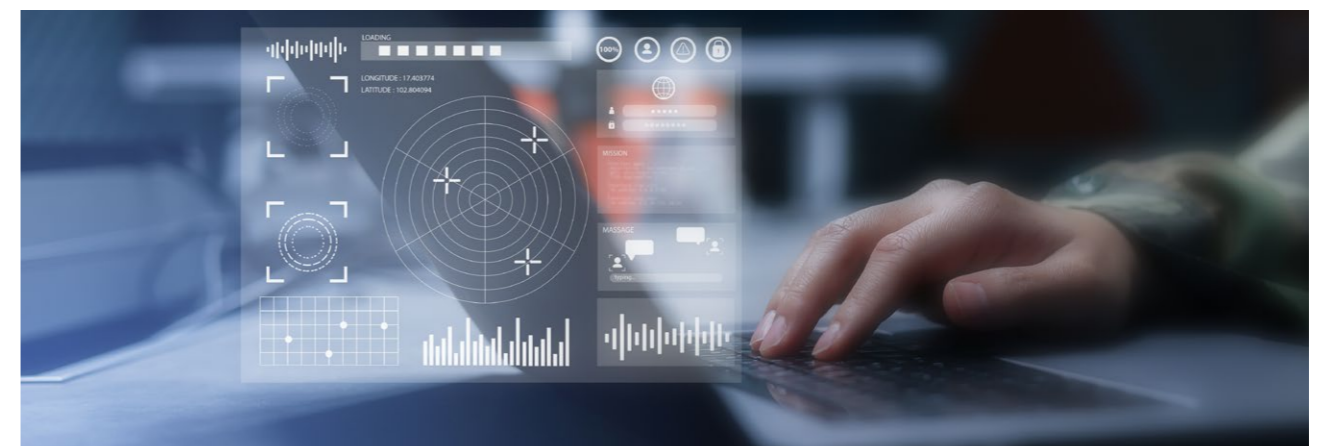
OPERATIONAL CONTINUITY IN CRITICAL SITUATIONS

In environments where reliable communication is critical, KATIM SATCOM EPM modems provide a level of assurance that conventional systems cannot match. This is especially important for defense, emergency response, and critical infrastructure sectors.



STRATEGIC ADVANTAGE IN CONFLICT SCENARIOS

For military and defense applications, the ability to maintain secure and uninterrupted communication can be the difference between mission success and failure. KATIM SATCOM EPM modems are a key component in achieving this reliability.



CORE FEATURES OF KATIM SATCOM EPM MODEMS

WHAT ARE EPM MODEMS FOR?

Anti-jamming and interference resistance

Utilise advanced techniques like frequency hopping and spread spectrum to ensure uninterrupted communications in contested environments where jamming and electronic warfare threats are prevalent.

Secure and encrypted communications

Implements high-grade encryption and secure key management to protect classified and sensitive information from interception or unauthorised access, maintaining operational security (OPSEC).

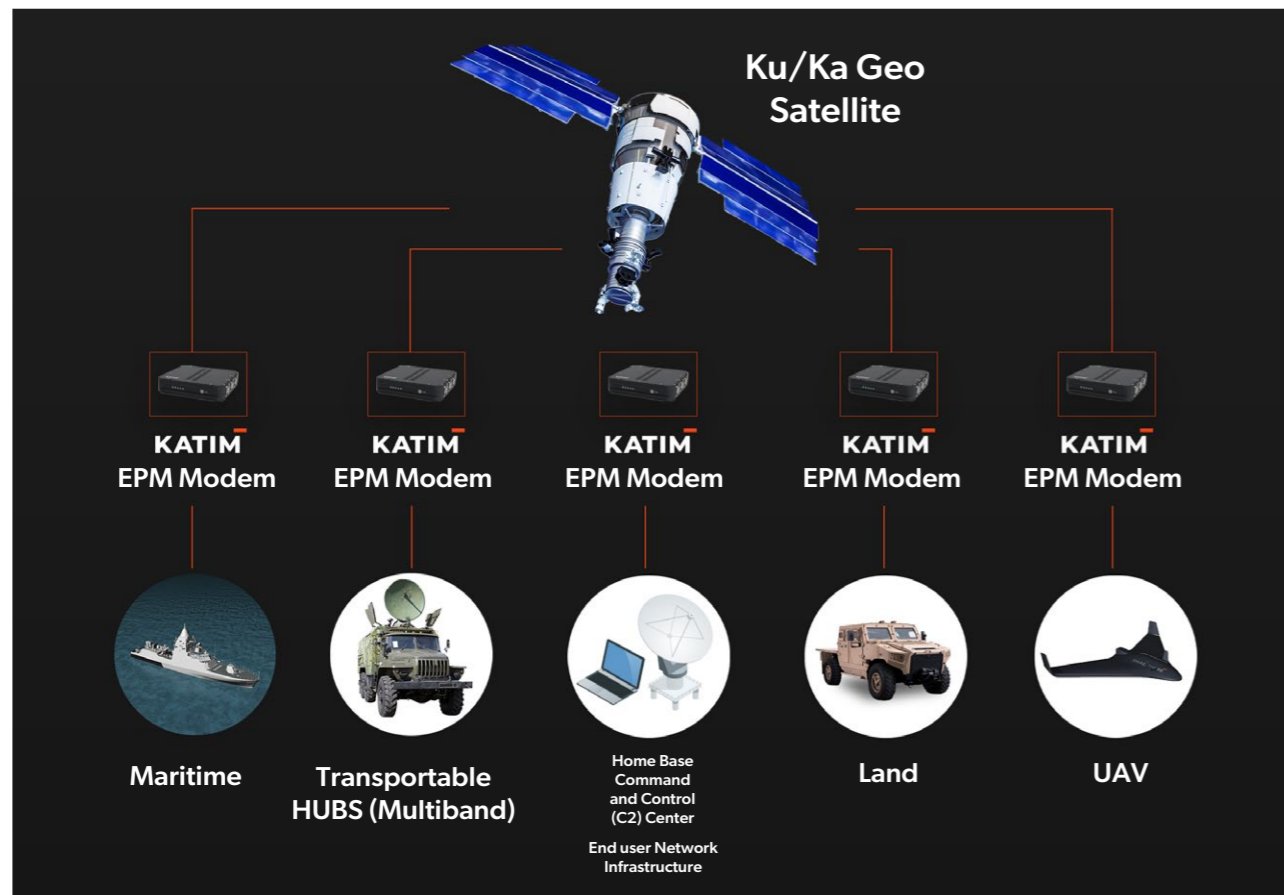
Adaptive modulation (CM)

Automatically adjust signal strength and coding to sustain robust connections in dynamic battlefield conditions, ensuring reliable communications.

Low probability of detection (LPD) and intercept (LPI)

Operates with low signal visibility, reducing the risk of detection and targeting by enemy forces through covert transmission techniques and minimal emissions.

KATIM SATCOM EPM MODEM THEATRE OF OPERATIONS



SPECIFICATIONS

Developed in the UAE by KATIM, our SATCOM EPM modem combines cutting-edge technology with mission-driven innovation. Engineered for resilience, it maintains secure and uninterrupted communication even in the most challenging environments, countering jamming and interference with advanced EPM waveforms and software-defined radio architecture. With data throughput of up to 200 Mbps and modulation support up to 256APSK, it ensures high-speed, reliable connectivity. Featuring robust TRANSEC for enhanced security and a user-friendly, web-based GUI for seamless management, it is built to MIL-STD 810G standards, offering uncompromising durability and performance in the toughest conditions.

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|---|---|
| Carrier Scheme | FHSS + DVB-S2x |
| Data Rate | Up to 96Mbps |
| Symbol Rates | 256ksps to 96Msps |
| DS Rate | 7 to 1020 PN Codes |
| Frequency Hopping | Supported |
| Forward Error Correction | Turbo, LDPC |
| Modulation | BPSK, QPSK, 8PSK, 16APSK, 32APSK, 128APSK |
| Coding Rates | 1/3 to 8/9 depending on modulation |
| Adaptive Modulation and Coding (ACM) | Supported |
| Data Interface | GB Ethernet Layer 3 support |
| Operating Temperature | -40°C to +65°C |
| Input Power | 18Vdc to 36Vdc |
| Power Consumption | < 100Watts |



KATIM

KATIM pioneers cutting-edge secure communication products, solutions, and services for governments and businesses worldwide. As a crucial component of EDGE's Space & Cyber Technologies cluster, a global leader in advanced technology, KATIM ensures trust in an era of ever-present cyber threats. Meeting the growing demand for advanced cyber capabilities, KATIM offers robust end-to-end solutions, including Professional Services, Networks, Ultra-Secure Mobile Devices, Applications, and Satellite Communications. Headquartered in Abu Dhabi, KATIM drives digital advancement, fosters talent development, and innovates to address customers' digital challenges, ensuring the privacy and security of mission-critical information and communications.

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Level 15, Aldar HQ
Abu Dhabi, United
Arab Emirates
+971 2 236 0600
Abu Dhabi, UAE