



OceanTRx™+

Secured Multiband Stabilized Maritime VSAT System for mission-critical applications **X/Ku/Ka Tri-Band Support**

A New Era of Cyber Warfare requires new technology to fend off modern attacks. Today, Orbit Communication Systems is bringing to market, field proven, advanced, best-in-class cyber security solution for its OceanTRx™ stabilized maritime VSAT system.

Based on the principle that you can't attack what you can't see, Orbit's cyber security protection is accomplished by making the network invisible to Cyber Attackers (No IP or Mac Address). The technology provides Unidirectional separation of Networks, AI-enabled anomaly or Zero Day threat detection/prevention, and White box Crypto encryption that does not require passwords/credentials into an integrated platform.

Orbit's NetShroud+ protection provides users the assurance that the protected systems installed in remote locations will function properly (the antenna will continue pointing at the satellite) even during a cyber-attack on the platform.

OceanTRx Series

Rethinking Maritime Satcom with Multiband Configurations

Combining years of experience and an extensive installed base with innovative proven multiband technology, Orbit is rethinking traditional VSAT – making them more compact and cost-effective – to address the dynamic needs of its GEO and NGSO constellation customers. The OceanTRx comprises cost-effective, high performance tracking systems for reliable connectivity with LEO/MEO/GEO satellites.

Key Features

- Advanced invisible Network Technology
- Ultra Low Latency Encryption
- Deep Packet Inspection and Prevention
- Artificial Neural Network (ANN) and Artificial Intelligence (AI) Capabilities
- Zero-Day and Ransomware Protection
- Compliance: NERC CIP, IEC 62443, NRC 5.71, NIST 800-82r2, CFATS, ISO 19790 levels 1-4, ISO/IEC 15408 EALs 1-7, others



Antenna Control
(Ethernet / Fiber Optics)

Ship
Network



Key features of NetShroud+

Advanced Undetectable Network Technology

NetShroud+ renders your systems invisible to attacks. No matter which hardware implementation you choose, your SATCOM network gains an impregnable shield, thwarting identity theft and unauthorized access attempts. Our robust implementation of White-Box Cryptography guarantees superior encryption, even when adversaries possess complete knowledge and control over the system.

Advanced Undetectable Network Technology

Ultra Low Latency Encryption with 1Gbit to 100Gbit per second throughput: NetShroud+ is designed to secure your communications with a latency of less than 4 nanoseconds. By ensuring optimal performance, minimal delay, and White Box encryption techniques we enable seamless and efficient encryption to protect your data in transit.

Unidirectional Separation of Networks

By integrating White/Black List Filtering with Zero Trust Microsegmentation and comprehensive deep packet inspection (DPI) and prevention (DPP) capabilities, NetShroud+ takes your security measures to the next level. Our solution grants you granular control over network traffic, allowing deep visibility into data packets. With DPP, NetShroud+ actively identifies and thwarts potential threats, safeguarding your satellite communication and access to the management and maintenance of your modems.

Artificial Neural Network (ANN) and Artificial Intelligence (AI) Capabilities

NetShroud+ harnesses the power of Artificial Neural Networks (ANNs) and Artificial Intelligence (AI) to detect anomalies and zero-day attacks. Our cutting-edge solution analyzes network data, identifying irregularities and responding autonomously in real-time. By integrating AI and ANN capabilities, NetShroud+ fortifies the security of your satellite communication, providing advanced protection against a wide range of cyber threats.

Zero-Day and Ransomware Protection

NetShroud+ offers robust protection against zero-day attacks and ransomware. Zero-day attacks exploit previously unknown vulnerabilities, while ransomware poses significant risks to your systems. Our solution detects anomalies and dormant attacks, preventing system crashes and the misuse of sensitive information. NetShroud+ ensures uninterrupted access to the management and maintenance of your modems, safeguarding your operations against these malicious cyber threats.

Orbit's NetShroud+ guarantees the integrity, confidentiality, and reliability of your network infrastructure.