



SATELLITE COMMUNICATION

TBOX, Hybrid Connectivity Platform

One vision. One Platform. Every Service.

 **TELESPAZIO**
a LEONARDO and THALES company

TBOX is Telespazio's proprietary router platform that integrates and orchestrates LEO, MEO and GEO satellite networks together with 5G and LTE connectivity in real time, creating a single intelligent, resilient and high-performance infrastructure.

It ensures business continuity and dynamic traffic routing by automatically selecting the best available satellite or terrestrial connection, delivering maximum reliability in the most remote and mission-critical environments. In service since 2013 and now in its fourth generation, TBOX is monitored 24/7 by Telespazio's Network Control Centre.

TBOX is available in two configurations: TBOX EVO and TBOX MAX.

Why TBOX

- **Always-on connectivity:** combines up to six concurrent satellite and terrestrial links, with automatic failover to an alternative connection whenever the primary link becomes unavailable, ensuring uninterrupted operations.
- **Higher throughput, resilient sessions:** MPQUIC bonding aggregates the bandwidth of all available WAN connections into a single, seamless session that remains active even if one link fails, with near-zero packet loss.
- **Security by design:** post-quantum encryption, advanced firewall capabilities and network segmentation protect critical data and systems against today's and tomorrow's threats.
- **Proven and fully supported:** built on four generations of field-proven hardware and backed by 24/7 monitoring from the Network Control Centre. Global installation, maintenance and support, both remote and on-site.

What's new

- **MPQUIC Bonding:** multiple satellite and terrestrial connections combined into one intelligent, resilient network, with traffic automatically reallocated in real time to protect critical services.
- **Post-Quantum Encryption:** the same cryptographic standards adopted by financial institutions and governments, designed to withstand future threats posed by quantum computing.
- **NIS2 readiness:** TBOX supports organizations in implementing the organizational, technical and procedural measures required to comply with the European NIS2 Directive.
- **Multi-orbit, multi-operator:** simultaneous use of Starlink and OneWeb (LEO), KVHTS and VSAT Ku-Ka (GEO), Inmarsat FleetBroadband and Iridium (L-band), and 4G/LTE/5G in any combination.

TBOX EVO



Bonding MPQUIC

Bundles every link into one. A call or a download never drops when a connection does.



Post-Quantum Cryptography

Encryption that stays secure even against tomorrow's quantum computers.



Core Capabilities

- **Up to six simultaneous connections:** aggregates and manages up to six concurrent links, combining multiple connections of the same type and/or different technologies according to the most efficient configuration.
- **Load Balancing & Failover:** traffic distributed across all active connections to maximize available bandwidth, with automatic switchover to ensure service continuity.
- **Firewall & Segmentation:** isolated environments give precise control over communications between devices while blocking any unauthorized inbound traffic.
- **Static IP:** a fixed public IP address permanently assigned, enabling reliable remote access to TBOX and secure connectivity to cameras, onboard systems and corporate VPNs.
- **VoIP:** enterprise voice communications over satellite internet with guaranteed bandwidth priority, for clear and stable calls even when available connectivity is limited.
- **Crew Welfare:** a dedicated Wi-Fi access portal for crew and guests, with voucher or personal-credential authentication, network separation from the corporate LAN, and activity monitoring.
- **Traffic Prioritization & Data Usage Control:** mission-critical traffic prioritized over recreational streaming, with native monitoring of data consumption by connection or user through configurable thresholds (no additional hardware required).

Main Specifications

CONNECTIVITY & WAN SUPPORT

- Up to 6 simultaneous links
- LEO: Starlink, OneWeb
- GEO: KVHTS, VSAT Ku-Ka
- L-band: Inmarsat FleetBroadband, Iridium
- 4G / LTE / 5G

NETWORKING

- Multiple SSIDs, VLAN isolation, segregated networks
- Business LAN and Guest/Crew LAN segmentation
- Static public IP

EXTERNAL CASE & ELECTRONICS

- Ruggedized shell, vibration/shock resistant
- Dust/sand resistant, components suitable for harsh environments

SOFTWARE FEATURES

- MPQUIC bonding, load balancing and failover
- Post-quantum encryption, firewall, network segmentation
- Application-aware QoS, VoIP priority, captive portal
- Native data usage monitoring and control

OPERATIONS & SERVICE

- 24/7 monitoring and management by the Network Control Centre
- Help desk, reporting and logging
- Global installation, maintenance and support, remote and on-site

COMPLIANCE

- Supports NIS2 Directive compliance

TBOX MAX



On-prem AI (offline, zero cloud)

Intelligence is in the box, not in the cloud.



Predictive Link Monitoring

Sees the failure before it hits.



Autonomous Cyber Defence

Detects, isolates and explains.



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