StarLite MR

Advanced digital data-link designed especially for mid-range platforms

Advanced Line-of-Sight (LOS) digital wireless communication system for medium-range manned and unmanned platforms in the air, sea or on the ground

Perfectly balancing high-performance capabilities and compact dimensions, the StarLite MR is a new-generation line-of-sight LOS digital wireless communication system exclusively designed for medium-range platforms including medium UAVs, USVs, UGVs,loitering munitions, mission helicopters, and others.

Multiple IP sources for seamless streaming - In order to ensure continuous connectivity, the system uses advanced networking features for simultaneous interfacing with dual IP sources. Offering comprehensive coverage, StarLite MR transmits digital SD or HD video and audio from the platform to the ground station, while continuously receiving IP sources and audio.

Uninterrupted video streaming is ensured by the system's ability to simultaneously connect with two video sources -Two SD, or SD and HD, using embedded H.264 video encoding-decoding that supports PAL/NTSC, HD-SDI.

Elbit Systems™

C⁴I and Cyber

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High-level performance in adverse conditions – The StarLite MR provides full-duplex (uplink and downlink) using Time Division Duplexing (TDD) in the customer's specified S-Band or C-Band frequencies. Communication remains unimpeded in challenging environments by combining with the MRC diversity technique.

To ensure unmatched performance levels, additional unique features include antenna diversity for reliable communication and excellent spatial coverage, and advanced error correction technique CTC-FEC.

StarLite MR COMSEC ensures robust and impenetrable communication security by supporting AES-256 bit encryption and TRANSEC embedded frequency hopping capability (optional).

Scalable integration and interoperability – Advanced modular technology allows StarLite MR to integrate seamlessly with a wide range of existing and future applications, as well as various handheld and vehicular tactical video systems. Smooth interoperability with the StarLite SR and StarLite ER systems enables full cross-layer functionality within the comprehensive StarLite series of products.

Compliant with stringent global standards – Deployed by armed forces worldwide, the system complies with leading international aviation regulations including flight safely standards DO-178 and DO-254. StarLite MR also supports MIL-STD-810F and MIL-STD-461 testing to ensure environmental worthiness.

Dual-axis tracking system, single-axis tracking system and omnidirectional GDT/RVT.

Operating Highlights

- A lightweight, compact system with an operational range of up to 150 km
- Broadband IP connectivity enabling transmission of dual IP sources
- H.264 video encoding-decoding for smooth transmission
- Transmission of several IP sources
- Supports analog or digital HD video
- Advanced technology for seamless integration with a wide range of existing and future applications
- Full-duplex (uplink and downlink) using TDD, available in two frequency bands
- AES-256 bit encryption (COMSEC) and embedded frequency hopping capability (TRANSEC) for secure communication (optional)
- MRC diversity technique ensures excellent communication quality, even in challenging environments
- Smooth interoperability and cross-layer functionality within the comprehensive StarLite series

Technical Highlights

Output Power	33/36dBm
Available frequency bands	S-Band/C-Band
Video latency	<160ms
ADT weight	600g
Controllable data rates	up to 8Mbps
Operational range	150 km (depending on GDT configuration)