

StarLite ER

High-Rate Digital Data-Link
Designed Especially for Extended-Range Platforms



Advanced, long-range line-of-sight digital wireless communication system for manned and unmanned aerial, naval and land platforms

The StarLite ER offers an extended range, high-data-rate solution for medium and large vehicles, manned or unmanned, in the air or sea, or on the ground. With a range of up to 250 Km, this advanced Line-of-Sight (LOS) digital wireless communication system is specifically designed for long-range vehicles including MALE UAVs, USVs, mission helicopters and aircrafts.

The flexible StarLite ER system is available in several frequencies including UHF-Band, L-Bands and C-Bands, adaptable to customer request. Unique integration capabilities enable the system to support existing and developing applications, and interconnect seamlessly with other members of the StarLite series.

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Seamless broadband IP connectivity - StarLite ER ensures end-to-end connectivity by providing high-speed data rates; transmitting several IP sources as well as an analogue or digital high-definition video and audio from the platform payload to the ground station; and receiving IP sources and audio from the ground.

Reliable communication in every situation - The StarLite ER offers full-duplex (uplink and downlink) using Time Division Duplexing (TDD). When joined with the MRC diversity technique, excellent communication quality is achieved even in the most challenging environments.

Advanced technologies for optimal performance - The StarLite ER system encompasses a unique set of features guaranteed to ensure top-level performance in every circumstance. In addition to H.264 video encoding-decoding that flexibly supports PAL/NTSC, HD-SDI, the system can work with two video sources simultaneously – two SD or SD and HD. Reliable communication and excellent spatial coverage are constantly achieved through antenna diversity (MRC) as well as advanced error correction techniques - CTC-FEC.

Robust security – (optional) The StarLite ER system ensures highly robust communications by supporting both AES-256 bit encryption and TRANSEC embedded frequency hopping capability.

Several Ground Segments (GDT) optional: Dual-axis Tracking System, Single-Axis Tracking system and Omni-Directional GDT\RVT

Operating Highlights:

- A lightweight, compact system with an operational range of up to 250Km
- 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
- H.264 video encoding-decoding for smooth transmission
- Transmission of several IP sources
- Support for analog and digital HD video
- AES-256 bit encryption (COMSEC) and embedded frequency hopping capability (TRANSEC) for secure communication (Optional).
- The MRC diversity technique ensures excellent communication quality, even in challenging environments
- Fully controllable data rates up to 12Mbps
- Smooth interoperability and cross-layer functionality within the comprehensive StarLite series

Technical Highlights

output Power	43dBm
Available frequency bands	UHF/L-Band/S-Band/C-Band/
Video latency	<160ms
ADT weight	4.2Kg
Controllable data rates	Up to 12Mbps
Operational range	250Km (depending on GDT configuration)



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