StarLite SR

Advanced short-range digital data-link designed especially for small\tactical platforms

Advanced, short-range line-of-sight digital wireless communication system for small manned and unmanned platforms.

With an operational range of up to 70 km, the StarLite SR is an advanced line-of-sight (LOS) short-range digital wireless communication system for small manned and unmanned platforms. Supporting several data rates of up to 8Mbps, the system's next-generation technology ensures smooth SD/HD video and audio or data from the payload to the ground station even in harsh conditions, in the air, at sea or on land.

Lightweight mobility for enhanced operational efficiency. Weighing only 230g (self-cooled), the StarLite SR is designed specifically for small platforms tailored to size, weight and power (SWAP): mini-UAVs, loitering Munitions, VTOL applications, handheld transceivers and others.

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Seamless integration – Transparent to IP networks, the system provides superior connectivity between applications. It transmits several IP sources high-definition video and audio from platform payload to the ground station, while receiving IP sources and audio. The system supports up to two video sources simultaneously - two SD, or SD and HD. Featuring H.264 video encoding-decoding, the StarLite SR supports PAL/NTSC, HD-SDI.

Multi-band, robust communication available in L-Band, S-Band and C-Band frequencies, (according to customer request), the StarLite SR provides full-duplex (uplink and downlink) using Time Division Duplexing (TDD). Antenna diversity (MRC) enables reliable communication and excellent spatial coverage. StarLite SR integrates seamlessly with various handheld, fixed and vehicular tactical video systems.

Robust security – (optional) The system supports AES-256 bit encryption (COMSEC) as well as embedded frequency hopping capability (TRANSEC).

Several Ground Segments (GDT) optional – Dual-axis tracking system, single-axis tracking system and omnidirectional GDT/RVT.

Operating Highlights

- Full-duplex (uplink and downlink) using TDD

- Available in multiple frequency bands

- H.264 video encoding-decoding for uninterrupted streaming

- Transmission of several IP sources

- Support for analog and digital HD video

- High-level performance powered by advanced error correction techniques: CTC-FEC

- Enhanced aerial security with full support of flight safety standards DO-178 and DO-254

- Fully secure communication with AES-256 bit encryption (COMSEC) and embedded frequency hopping capability (TRANSEC) – (optional)

- Antenna diversity (MRC) enabling reliable communication and unimpaired spatial coverage

- Smooth interoperability and cross-layer functionality within the StarLite series

Technical Highlights

Output Power	28dBm
Power consumption	~10W
Video latency	<160ms
Weight	ADT weight: 230g (self-cooled)
Data rates	Controllable up to 8Mbps
ADT mechanical dimensions	105.5mm X 72mm X 27.5mm (self-cooled)
Operational range	70 km (depending on GDT configuration)

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