

# The StarLite Data-Link Series

Flexible high-performance LOS digital  
Wireless Communications systems



**Elbit Systems™**

C4I and Cyber



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## Flexible high-performance LOS digital wireless communications for a wide range of manned and unmanned platforms in the air, at sea, or on land

The StarLite data-link series includes a comprehensive array of line-of-sight (LOS) digital wireless communications systems for manned and unmanned platforms. The field-proven series is designed to meet the operational needs of forces deployed in the air, at sea, or on land.

Optimal solutions for all your wireless communications needs – Each of the highly flexible StarLite products has been customized individually to enable easy operation and deliver optimal short, medium and extended-range communications for platforms ranging from mini-UAVs, VTOL applications, USVs and loitering munitions, to MALE UAVs and mission helicopters/aircraft.

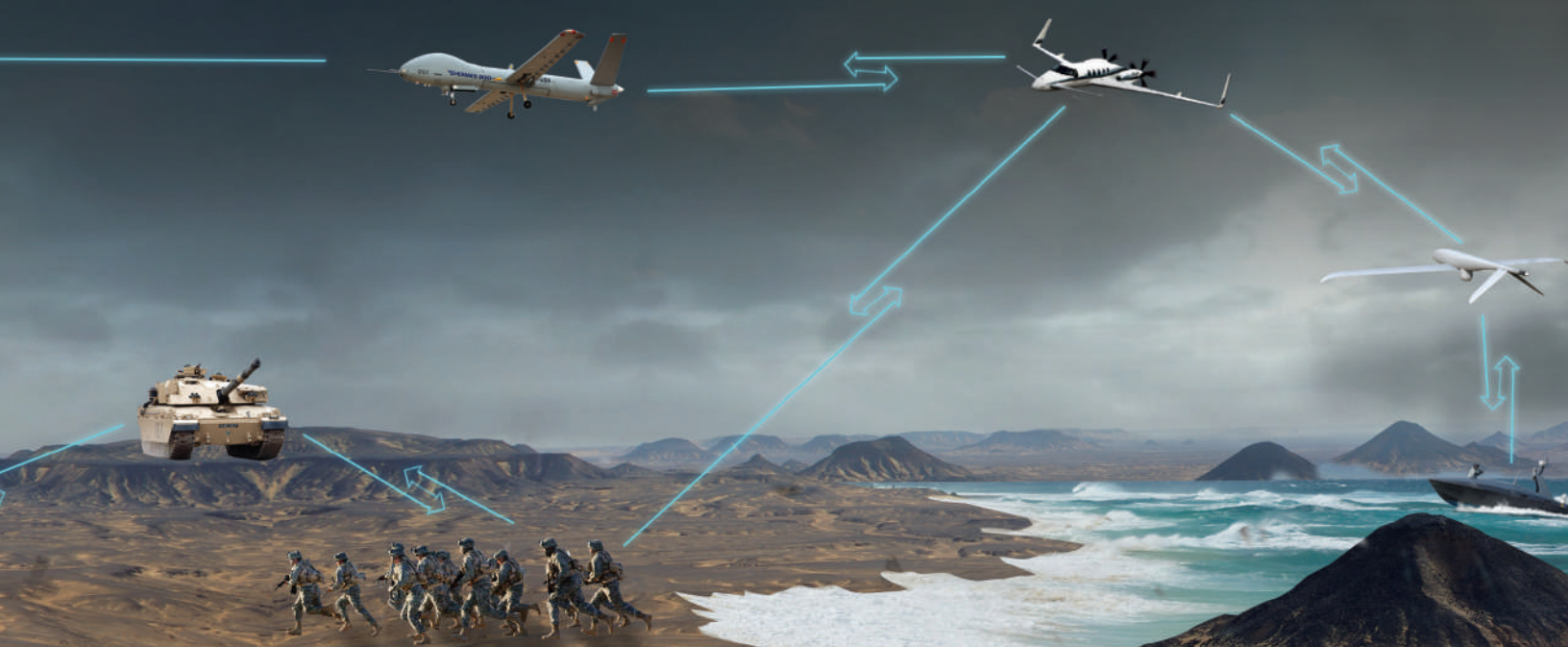
Seamless integration with data applications – All the models offer smooth connectivity with multiple IP sources, scalable integration and interoperability, and excellent communications even in the most challenging environments.

Field proven – Based on the experience and expertise acquired over four decades, Elbit Systems has incorporated new-generation technologies to develop this series of customized solutions. The result of extensive R&D, each of the StarLite offerings provides optimal performance levels regardless of external disruptions such as jamming attempts, geographical location or harsh terrain.

The StarLite series shares a unique set of features that ensures superior performance levels at all times:

Reliable communication in every situation – The StarLite family 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 family encompasses a unique set of features guaranteed to ensure top-label performance in every circumstance. In addition to H.264 video encoding-decoding that flexibly supports PAL/MTSC, 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.

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

- MRC diversity technique ensures excellent communication quality, even in challenging environments
- Smooth interoperability and cross-layer functionality within the StarLite series

- Available in several frequencies according to customer request
- Full-duplex (uplink and downlink) using Time Division Duplexing (TDD) combined with the MRC diversity technique
- Simultaneous support for up to two video sources (two SD, or SD and HD)
- H.264 video encoding-decoding for PAL/MTSC, HD-SDI
- High-definition video and audio transmission from platform to the ground
- Reception of multiple IP sources and audio from the station
- Seamless integration with tactical video systems (vehicular and handheld), existing and future applications, and cross-layer interoperability within the StarLite series
- Robust security supporting both COMSEC (AES-256 bit encryption) and TRANSEC (embedded frequency hopping capability)




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## StarLite Series Highlights - Platform Segment (ADT)

	StarLite SR	StarLite MR	StarLite ER
Operational range	75 km	150 km	250 km
Frequencies	L-Band, S-Band or C-Band	S-Band or C-Band	UHF, L-Band, S-Band or C-Band
Controllable data rates	Up to 8Mbps	Up to 8Mbps	Up to 12Mbps
Transmission power	28dBm	Up to 36/33dBm	Up to 43dBm
Weight	230g	600g	4.2 kg
Picture			

## StarLite Series Highlights - Ground Segment (GDT)

	Dual-axis tracking system	Single-axis tracking system	Omnidirectional GDT/RVT
Directional antenna	25dBi / 28dBi	15dBi / 19dBi	-
Omnidirectional antenna	2dBi	2dBi	2dBi
Weight	<25 kg	<15 kg	<1.5 kg
Accessories	Tablet/Laptop, GUI (incl. Video Player), Tripods, Batteries, etc.		
Picture			



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