

A-JDLS

ASELSAN JOINT DATA LINK SYSTEM





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Applications of ASELSAN Joint Data Link System:

- Transmission of payload info (image, video, sensor data etc.) from airborne platforms to the ground operator in near real-time;
- Transmission of related commands and marking info on received image from ground personnel to airborne platform
- Network based tactical communication between platforms

ASELSAN Joint Data Link System is indigenously designed to meet all ISR and Tactical Data Link requirements.

Technology:

Hardware compatible with waveform features such as;

- Layered structure for modularity and signaling and optimization between layers,
- Adaptive coding and modulation with respect to range and channel capacity,
- GPS independency by RF based synchronization feature,
- Effective network management with distributed algorithms at network level,
- Fast adaptation to mobility based topological changes,
- Prevention of Single Point of Failure generation
- Capability of automatic and operator controlled switching between waveform mods

General Specifications:

- Indigenous design
- Software defined architecture
- TRANSEC and COMSEC crypto capability
- Flexible and modular architecture; configurable depending on different data rate, range and frequency band requirements
- Low SWAP
- High data transmission rate support
- High speed frequency hopping capability
- Automatic relay capability
- Network based (Ad-Hoc and Self-Healing)
- Antenna tracking and steering capability
- Analog and digital video interface support

Technical Specifications:

- Frequency Range : L/S to Ka band
- Data Rate : Up to 300Mbps
- Hop Rate : Up to 100,000 hop/sec
- Video Encode/Decode : H.264
- Environmental Conditions : MIL-STD-810
- EMI/EMC : MIL-STD-461
- Supply Voltage : 28 – 32 VDC
(MIL-STD-1275 and MIL-STD-704)
- Operating Temperature : -40°C to +71°C
- Storage Temperature : -40°C to +85°C

