## aselsan

# IFF Mk XIIA(S)

SHORT-MEDIUM RANGED INTERROGATOR





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### SHORT-MEDIUM RANGED INTERROGATOR

Mode 5/S IFF Interrogator is a Short-Medium Range Interrogator which meets today's air defense needs with Mode 5/S features. Mode 5/S IFF Interrogator is compatible with STANAG 4193 Edition 3 and supports Mode 1, Mode 2, Mode 3/A, Mode C, Mode S and encrypted Mode 5.

IFF Interrogator works coordinately with the primary sensor in the platform. Interrogator has "Automatic/Manual" and "Interlace/Supermode" interrogation management capabilities depending upon operational needs.

IFF Interrogator has "RSLS/ISLS", "Defruiting", "GTC" and "Mode 5 Reply Evaluation" capabilities.

### Technology

IFF Interrogator includes; FPGA, DSP, Microprocessors with high processing power; ADC/DAC with high sampling rate and digital modulation/demodulation techniques. Functions are fulfilled in one device in all modes of IFF and therefore flexibility and reliability are significantly provided.

### **General Specifications**

- STANAG 4193 Edition 3 compatible
- Capability of Mode 5 operation with M5K-II Plug-In Crypto Device
- Supports Mode 5 Level 1 and Level 2
- Supports Mode S
- ADS-B Receive/Process Capability
- Control Interfaces:
  - Application Layer Protocols: ASTERIX (Category 007, 048, 021 and 253), NMEA 0183
  - Synchronous RS-422
  - Ethernet
- NMEA 0183 GPS Interface Compatible (Asynchronous RS422)
- Sum and Diff Antenna Interfaces (RSLS, ISLS capability)
- Antenna Rotation Info: ACP/ARP Serial or 14 byte Parallel
- Capability to work with Electronic Scanning or Mechanical Rotating Antenna
- Digital Target Reporting Sliding Window/Monopulse Processing
- Automatic/Manual Interrogation
- Supermode/Interlace Interrogation
- BIT (Built-in Test) Capability

#### **Technical Specifications**

Operating Frequency: 1030 MHz (transmission): 1090 MHz (reception)

RF output power (peak) : 500 W ± 2 dB nominal

• Transmittion duty cycle : %1

Supply Voltage : 28 Vdc MIL-STD-1275E
Operating Temperature : -40°C to +63°C

Operating Altitude : 11 500 ft
Shock, Humidity, Vibration : MIL STD 810G
EMI/EMC : MIL STD 461E

