



IFF MODE 5/S SHORT/MEDIUM RANGE
INTERROGATOR

#MilitaryCommunication



aselsan

IFF MODE 5/S SHORT/MEDIUM RANGE INTERROGATOR

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

IFF Mode 5/S Interrogator works coordinately with the primary sensor in the platform. Interrogator has "Automatic/Directed" and "Interlace/Supermode" interrogation management capabilities depending upon operational needs.

IFF Mode 5/S Interrogator has "RSL/ISL", "Defruiting" and "GTC" capabilities.

Technology

IFF Mode 5/S 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

- NATO STANAG 4193 Edition 3 Compatible
- Control and Data Interfaces
 - Ethernet
- Application Layer Protocols: ASTERIX (Category 007, 048 and 253)
- NMEA 0183 GPS Interface Compatible (Asynchronous RS422)
- Sum and Diff Antenna Interfaces (RSL, ISL capability)
- Antenna Rotation Info: ACP/ARP Serial
- Capability to work with Electronic Scanning or Mechanical Rotating Antenna
- Sliding Window/Monopulse Processing
- Automatic/Directed Interrogation
- Supermode/Interlace Interrogation
- Digital Target Reporting
- Built-in Test (BIT) Capability

Technical Specifications

- Operating Frequency : 1030 MHz (transmission)
1090 MHz (reception)
- RF output power (peak) : Adjustable to 500 W,
125 W (± 2 dB)
- Transmission duty cycle : %1
- Supply Voltage : 28 Vdc MIL-STD-1275
- Operating Temperature : -40°C to +63°C
- Operating Altitude : 11500 FT
- Shock, Humidity, Vibration : MIL STD 810G
- EMI/EMC : MIL STD 461E

Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.