



IFF LONG RANGE INTERROGATOR

#MilitaryCommunication



aselsan

## IFF MODE 5/S LONG RANGE INTERROGATOR

IFF Mode 5/S Long Range Interrogator is compliant with NATO STANAG 4193 Edition 3 and supports Mode 1, Mode 2, Mode 3/A, Mode C, Mode S and encrypted Mode 5.

IFF Mode 5/S Long Range Interrogator operates autonomously (standalone) by means of an on the shelf software or in conjunction with a host radar / primary sensor.

IFF Mode 5/S Long Range Interrogator is a single unit consisting of Line Replaceable Units (LRU) and has the ability to perform "RSLs/ISLS", "Defruiting", "GTC" and "Mode 5 Reply Evaluation" functions.

### Features

- Certification according to NATO STANAG 4193 Edition 3
- Capability for all Mk XIIA(S) Modes
- Capable of Mode 5 Operation with M5K-II Plug-In Crypto
- ADS-B Reporting Capability
- Supermode Capability
- Interlace Capability
- Digital Target Reporting
- Two or Three Antenna Channel Interfaces (Sum, Difference and Omni) for both Transmission and Reception
- Electronic Steering Antenna/Mechanical Steering Antenna
- Discrete Signals to and from the Platform
- Sliding Window/Monopulse Processing
- Modular/Digital Architecture
- Built-in Test (BIT) Capability
- Dimensions: 19" Rack Mountable with 6U Height and 55 cm Depth

### Technical Specifications

- Modes : Mode 1, 2, 3/A, C, 5 Level 1 and Level 2 and Mode S
- Peak Output Power at Antenna Ports : Adjustable to 500W, 1000W, 2000W or 2x2000W
- Transmitter Center Frequency : 1090 MHz
- Receiver Center Frequency : 1030 MHz
- Input Power : 115 VAC  $\pm$  %10, 50 Hz  $\pm$  %5, 1 Phase  
115 VAC  $\pm$  %10, 60 Hz  $\pm$  %5, 1 Phase  
220 VAC  $\pm$  %10, 50 Hz  $\pm$  %5, 1 Phase

### Environmental / Electromagnetic

- Salt Fog : 48-hour exposure
- Humidity : 90% relative
- Environmental Qualifications : MIL-STD-810G
- Electromagnetic Compatibility : MIL-STD-461F/G
- Altitude
  - Operating : Up to 15.000 ft
  - Storage : Up to 37.000 ft
- Temperature
  - Operating : -20°C to +60°C
  - Storage : -40°C to +85°C (Batteries removed)

### Interfaces

- Control and Data Interface : Ethernet, Growth to RS422
- Application Layer Protocols : ASTERIX (Category 007, 048, 021 and 253), NMEA 0183

### Reliability

- MTBF : > 3500 hours (MIL-HDBK-217 Calculated)
- MTTR : < 30 minutes

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