

IFF MARK XIIIA

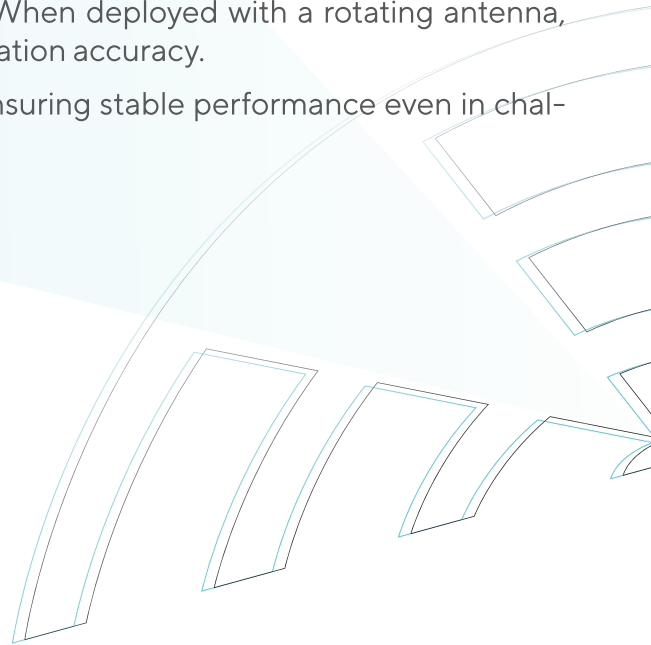
IKZ-50P SHORT-RANGE INTERROGATOR



The IKZ-50P is a short-range IFF Mark XIIA interrogator designed for close-range air defense systems (SHORAD and VSHORAD) and is specifically tailored for integration with weapon systems and radars. It supports both fixed and rotating antenna platforms, ensuring flexible deployment.

Built for reliability and ease of use, the IKZ-50P features a robust construction ideal for demanding operational conditions. Its modular design simplifies maintenance, while an advanced diagnostic system enables rapid fault detection and troubleshooting. Integration is enhanced by its reduced size, low power consumption, and standardized connectivity via the ASTERIX protocol, ensuring seamless incorporation into contemporary weapon systems and radars. Fast response time minimizes delay, ensuring that weapon engagement is initiated without delay. When deployed with a rotating antenna, monopulse detection further enhances target azimuth estimation accuracy.

Additionally, the system offers superior noise immunity, ensuring stable performance even in challenging operational environments.



MAIN FEATURES:

Supports Mode 5 Level 1	Compliant with STANAG 4193 Edition 3
Supports both KIV-77 and SIT2010 cryptocomputers (DoD AIMS 04-900 Option B)	Facilitates integration with both radar and weapon systems
Employs monopulse processing to enhance azimuth estimation accuracy in radar systems	Provides extensive fault detection through advanced built-in test (BIT) procedures
Offers enhanced immunity to noise and jamming, ensuring reliable operation in challenging environments	Utilizes the standard ASTERIX protocol to ensure broad interoperability with primary radar and weapon systems
Includes built-in support for Ethernet, and RS-422 (over HDLC);	Capable of sourcing time from radar systems, GPS, and cryptocomputers

SPECIFICATION

General

Type	Short-range IFF Mark XIIA interrogator
Identification capability	Mode 4, Mode 5 Level 1 (software-upgradeable to Level 2) per STANAG 4193 Edition 3

Performance

Output power	> 50 dBm
Minimum Decoding Level	< -68 dBm
Instrumented range	25 km
Bearing range (with included antennas)	100 objects/scan; 10 in-beam targets

Connectivity

Interfaces	Ethernet, RS-422, Option B Crypto (DoD AIMS 09-400A)
Control protocol	EUROCONTROL ASTERIX-compatible, over HDLC or TCP/IP

SPECIFICATION

Environmental

Operating temperature

From -40 to +55°C

Humidity

<98% RH

EMC compatibility

Complies with MIL-STD-461F

Reliability

MTBF

≥ 5600 h

MTTR

< 30min

Physical characteristics

Power supply

28V DC, max 80 W (35 W typical)

Dimensions

225×113×174 mm (W×H×D) (206 mm with handle)

Weight

4.7 kg (without crypto)

Cooling

Natural, convection




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