



TPX-62

## NEXT-GENERATION AIR DEFENSE INTERROGATORS

# HIGHLY COMPATIBLE AND SECURE

### IFF Mode 5, Mode S, ADS-B interrogators

Collins' advanced interrogator technology provides cooperative identification and increased safety, incorporating SIF, Mode 5, Mode S and ADS-B capabilities into a flexible open system architecture.

Collins Aerospace developed the Military Identification Friend or Foe Next-Generation Interrogators as an evolutionary advancement to its air defense products. The added support for Mode S and ADS-B provide civil Air Traffic Control capabilities, ensuring the interrogator is suitable for any mission. The interrogator family is highly configurable with proven capabilities

on multiple platforms and provides full support for all current active IFF Modes.

High compatibility to standard IFF SUM/Diff antenna patterns and automated line loss calibration, allows next-generation air defense interrogators users to choose the antennas that meet their operational needs. The interrogator family incorporates passive receive capabilities for the reception of Mode S extended squitters and Mode 5 Level 2 reports. The extensive networked command and control capability, coupled with cybersecurity hardened architecture with life cycle support, allows for cybersecurity patches to be loaded over the network with minimal impact to AIMS certification.

### KEY FEATURES & BENEFITS

- DOD AIMS 17-1000 certified
- Optional embedded M-code GPS
- Hosts Mode 5 crypto appliqué
- Mk XII B/Mode S interrogation capability and passive receive (ADS-B and Mode 5 Level 2)
- Front panel operator display for system status and BIT diagnostic
- Monopulse AoA processing
- Unclassified at rest
- Cybersecurity hardened
- Multiple secure time solutions
- Growth slots to meet future requirements



**DESCRIPTION**

- U.S. DOD AIMS 17-1000 certified and NATO STANAG 4193 compatible. ICAO Annex 10, DO-260B
- Fit and form replacement for existing TPX-57(V)2, Model 5800-0551/0552 with TPX-61
- Programmable Ethernet interfaces
- Highly demonstrated field reliability
- Multiple GPS/Time source configurations



TPX-61 Air Defense Interrogator



TPX-62 Long-Range Air Defense Interrogator

	TPX-61	TPX-62
<b>FEATURES</b>		
<b>Solid-state transmitter</b>	200 W output power; -3 dB and -6 dB programmable reductions	2000 W output power; -3 dB and -6 dB programmable reductions
<b>Transmit center frequency</b>	1030 +/-0.01 MHz	1030 +/-0.01 MHz
<b>Operational modes</b>	Mode S ADS-B Mode 5 Level 1 and 2 SIF	Mode S ADS-B Mode 5 Level 1 and 2 SIF
<b>Minimum detectable level (MDL)</b>	-86dB	-86dB
<b>Standard interfaces</b>	Programmable Ethernet	Programmable Ethernet
<b>Weight</b>	16.4 lbs (7.4 kg)	20 lbs (9.07185 kg)
<b>Size</b>	7.1 in. x 5.74 in. x 10.2 in. (18.03 cm x 14.60 cm x 29.90 cm)	9.6 in. x 5.74 in. x 10.2 in. (24.42 cm x 14.60 cm x 29.90 cm)
<b>Prime power</b>	115 VAC 60/400 Hz or 28 VDC	28 VDC
<b>MTBF</b>	8,000 hours	11,000 hours
<b>MTTR</b>	< 30 minutes	< 30 minutes

Specifications subject to change without notice.

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