



SAN-PC

Integrated Naval IFF System

- TSA 1015 IFF interrogator and PT-2000 IFF transponder
- Modes 1, 2, 3/A, C and secure mode, interlaceable
- Panoramic or sector interrogations
- 150 (minimum) targets processed per scan
- 30 (minimum) targets processed per antenna effective beam
- Up to 450 km IFF target range (depending on antenna gain and cable losses)
- Fully integrated in a navalised cabinet
- Port and starboard transponder antennas for full diversity operation
- Local status and control panel (LSCP) in cabinet
- Remote status and control panel (RSCP) in operations room
- Plot data, control and status via HDLC link
- Extensive built-in test (BIT) facilities
- CR-1015 interrogator cryptographic computer (option)
- CT-2000 transponder cryptographic computer (option)
- COTS-based interface processing unit (IFPU)
- Powered by 115 Vac / 60 Hz in accordance with STANAG 1008

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SAN-PC IFF



PERFORMANCE AND OPERATIONAL

Interrogation Modes: Interlaced modes 1,2,3/A and C
For secure mode and MkXA modes, secure mode has priority in over-lapping sectors
Ability to perform panoramic or sector interrogations

Interrogation Capability:
Number of targets processed per scan 150 minimum
Number of targets processed per antenna effective beam 30 minimum
IFF target range Up to 450 km
IFF interrogation in relation to MRR radiation Independent

Plot Accuracy and Resolution:
Bearing Accuracy Typically 0.32°
Bearing Resolution Typically 2.4°
Range Accuracy Typically better than 80 m
Range Resolution Typically better than 100 m
Transponder Modes Modes 1, 2, 3/A, C and secure

ELECTRICAL

IFF Cabinet:
Voltage 115 Vac (± 10%)
Frequency 60 Hz (± 5%)
Phases 1
Power Consumption ≤ 1 kW
Inrush Current ≤ 200 A
Power Factor ≤ 0.8
Power Quality According to STANAG 1008

RSCP:
Voltage 115 Vac (± 10%)
Frequency 60 Hz (± 5%)
Power Consumption ≤ 20 W
Inrush Current ≤ 3 A
Power Factor ≤ 0.8
Power Quality According to STANAG 1008

PHYSICAL

IFF System Major Equipment Dimensions and Mass:

IFF Cabinet	Length	780 mm
	Width	580 mm
	Height	1,415 mm
	Mass	230 kg
RSCP	Length	101 mm
	Width	80 mm
	Height	280 mm
	Mass	4.7 kg
Transponder Antenna	Diameter	50 mm
	Height	238 mm
	Mass	0.4 kg

ENVIRONMENTAL

Temperature	0°C to + 40°C
Humidity	≤ 90%
Vibration (reduced for floating floor)	DEF-STAN-07-55
Shock (reduced for floating floor)	6 g for 20 ms
Electromagnetic Compatibility	MIL-STD-461C CE01, CE03, RE01, RE02, CS01, CS02, CS06, RS02, RS03