



## 2D FULLY SOLID STATE X-BAND RADAR

### General Features

- 2-D, fully coherent, software defined functionality, pulse compression radar
- Dual channel Solid State X-Band transceivers for **air + surface** detection
- Dual antenna system with  $csc^2$  beam squintless H-Pol array and fan beam C-Pol array
- Surface channel and air targets simultaneous processing
- MTI processing
- Adaptive anti-clutter and echo enhancement processing
- Fully solid state transmitter
- Integrated BITE system
- ECCM resistant
- IFF option
- Frequency agility
- Close range helicopter guidance and SAR mission
- Compliant with applicable MIL Standards for military equipment
- Dual redundant/fault tolerant option for coastal operations



Back-to-back antenna system with state-of-the-art flat planar array allows **air + surface** search and tracking. It is specially designed for on board as well as coastal surveillance applications.



## TX (Surface + Air Channels)

• Frequencies	programmable within 9000 ÷ 9500 MHz
• Maximum Transmission Power	800 + 800 W peak power

## Receiver (Surface + Air Channels)

• Sensitivity	< -130 dBm
• Noise Figure	< 4.5 dB
• Dynamic range	> 120 dB
• Receiver bandwidth	30 MHz (nominal)

## Antenna system

• Dual X-Band 6' antenna in back-to-back configuration	
• Array 1:	planar, csc <sup>2</sup> beam, squintless, horizontal polarization
• Array 2:	slotted, fan beam, circular polarization
• Rotation speed	10 ÷ 40 RPM

## Tracker

• Surface and air targets	> 1000 tracks
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## Interfaces

• Ethernet	
• Serial RS232, RS422	

## Options

• IFF antenna	
• Stabilizing platform (for naval application)	

