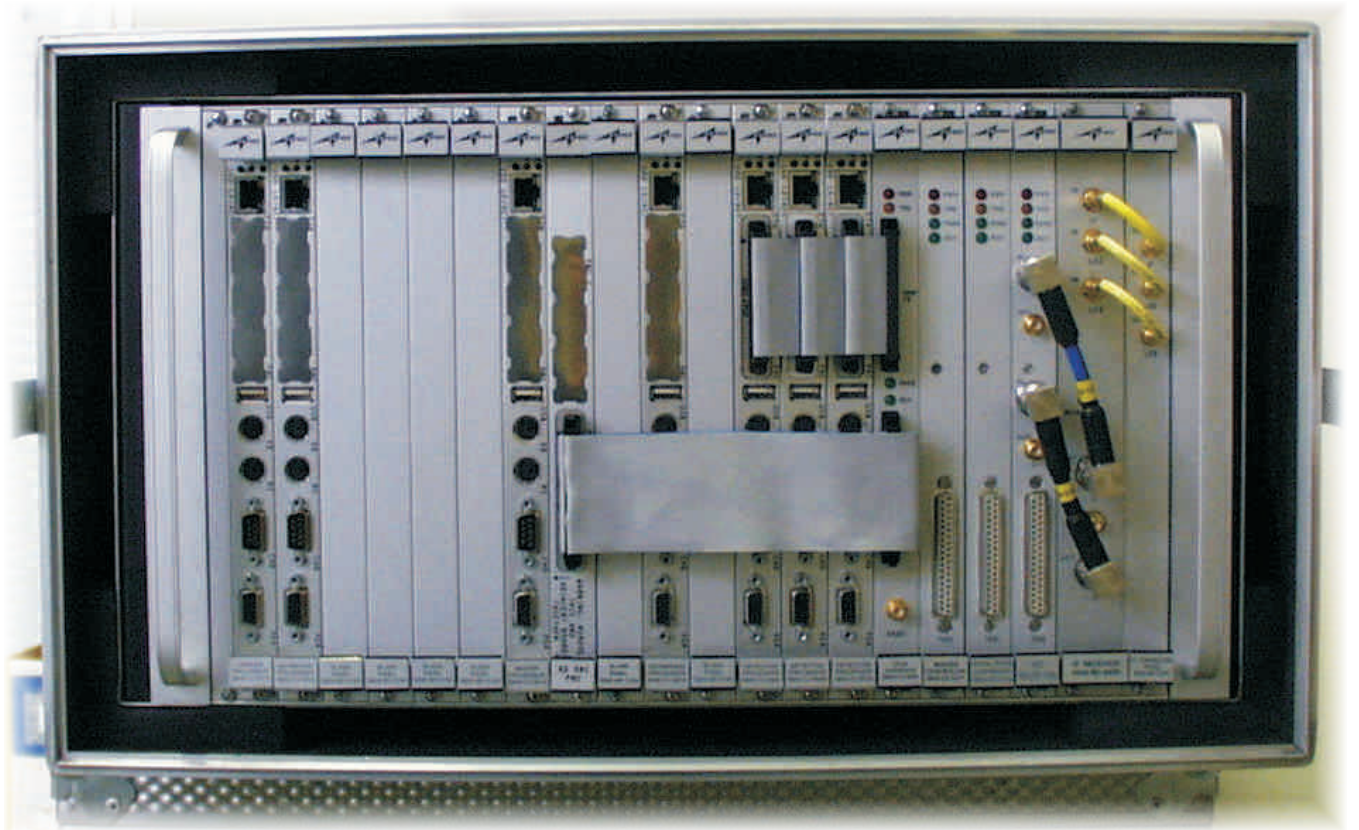


# RRP 200N

## Air Surveillance Radar Processor for Marine Application

**REUTECH**  
RADAR SYSTEMS



### Standard Processor Features

- Application in the upgrade of non-coherent magnetron transceivers to pseudo-coherent systems providing sub-clutter visibility of small air targets
- Direct sampling of transmit and receive signals at Intermediate Frequency
- Sensitivity Time Control (STC)
- Moving Target Indicator (MTI) processing
- Constant False Alarm Rate (CFAR) thresholding
- Azimuth sliding window discrimination
- Air Target Plot Extraction and Tracking
- Comprehensive Built-In Test (BIT) features
- VME form-factor Commercial-Off-The-Shelf (COTS) processors for enhanced supportability
- Compact 19-inch sub-rack packaging

*Innovative Solutions...Affordable...Available...*

# RRP 200N

## Air Surveillance Radar Processor for Marine Application

### Performance

- PRF: Up to 2300 Hz
- Stagger: 16 pre-programmed stagger patterns
- MTI: Selectable, 4-pulse maximum
- CFAR: Cell-Averaging-Greater-Of (CAGO)
- Track initialisation: Automatic
- Track minimum velocity: Selectable >10m/s
- Track capacity: 100 per second

### Interfaces

- Mechanical: 19-inch by 6U sub-rack 400 mm deep
- Electrical:
  - ▶ Input radar video: 100 MHz linear video (Tx and Rx)
  - ▶ Output Radar Video : LAN Ethernet TCP/IP; pre-extraction target slashes
  - ▶ Turn Data: Azimuth Change Pulse/ Azimuth Reset Pulse RS422
  - ▶ PRF Trigger: 75 Ohm Coaxial
  - ▶ Magnetron Ref Pulse: 50 Ohm Coaxial
  - ▶ Plot/Track: LAN Ethernet ASTERIX Protocol
  - ▶ Radar Control: LAN Ethernet SNMP Protocol
  - ▶ Power: 230VAC 50 Hz 800 W

### Major Components

- Signal Processor Receiver Front-End (SP-RFE)
- Input/Output Back-Panel
- VME Backplane
- Routing Backplane
- Software Signal Processor (SSP)
- Data Processor (DP)
- Sub-rack with Power Supply
- Integral LAN Switch

**IFR:** IF Receiver  
**DSCM:** Data Sampling and Control Module  
**SBC:** Single-Board Computer

### Options

- Dual channel configuration for frequency diversity applications
- Maintenance and Test Console
- Jammer detection and reporting
- IFF plot combination
- Dual-pulse operation for improved close range performance
- Time-base interface for track time-stamping
- Video: Selectable pre-processed Clutter Map/MTI/Non-coherent
- Alternative antenna turn data format

