aselsan

ATCRS

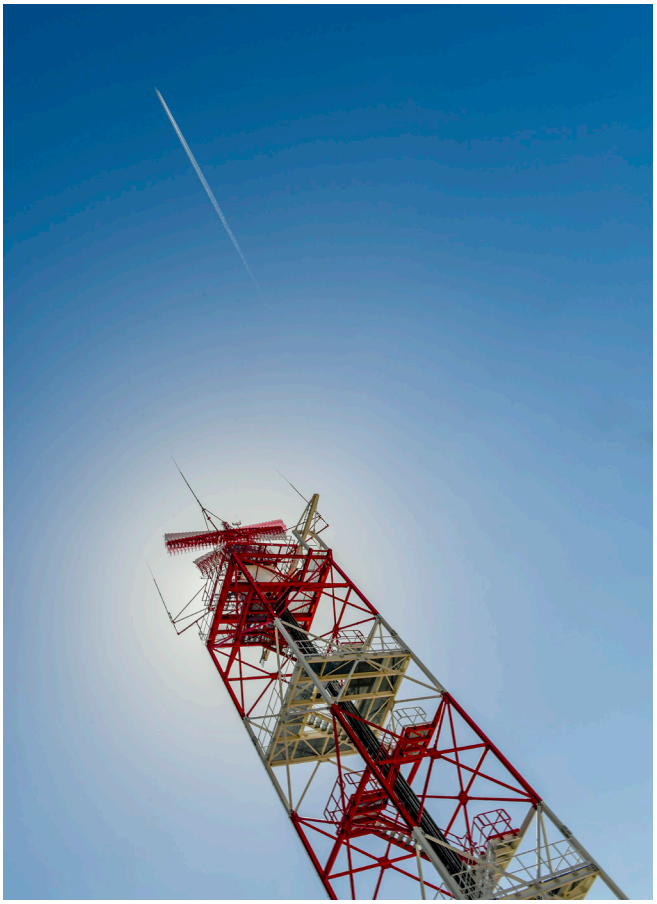
AIR TRAFFIC CONTROL RADAR SYSTEM

www.aselsan.com

ATCRS

AIR TRAFFIC CONTROL RADAR SYSTEM

Air Traffic Control Radar is the main radar system that is used for detecting and tracking all airborne targets around an airport. It includes a Primary Surveillance Radar (PSR) that enables the operator to focus on the moving targets specifically with its MTI feature and a Secondary Surveillance Radar (SSR) that enables tracking of the airplanes by IFF interrogation.



Technical Specifications

- Frequency Band : S Band (2700-2900 MHz)
- Max. Number of Tracks
  : 1000 (PSR)
  : 750 (SSR)
- Elevation Coverage
  : PSR: 0 – 28000 feet
  : SSR: 0 – 60000 feet
- Azimuth Accuracy
  : PSR:0.150
  : SSR:0.150
- Range Accuracy
  : PSR:150 feet
  : SSR:160 feet
- Range Resolution
  : PSR: less than 500 feet
  : SSR: less than 300 feet
- Azimuth Resolution
  : PSR: less than 1,50
  : SSR: less than 30
- Availability : % 99.999
- MTBCF : 45.000 hours
- MTBF : >950 hours
- MTTR : < 0,5 hour
- Cooling Type : Air Cooling

General Features

- 24/7 uninterrupted operation
- High reliability due to multiple transmit/receive modules architecture
- LRU/SRU level redundancy in matrix structure
- Hot Redundant
- PSR instrumented range: 80 NM
- SSR instrumented range: 250 NM
- Algorithm to reduce the impact of wind turbines
- Filter structure to prevent adverse impacts of 4G frequency
- Integration with flight plans
- Compliant with civil aviation standards set by ICAO and Eurocontrol

P: +90 (312) 592 60 00 | **F**: +90 (312) 354 13 02 | rehismarketing@aselsan.com.tr