SECONDARY SURVEILLANCE RADAR FOR AIR TRAFFIC CONTROL

- More than 200 worldwide operational references
- Full Mode S functionalities validated by Eurocontrol
- Contribute to radar separation standards
- Unique version for MSSR and Mode S Elementary/Enhanced Surveillance,
  Mixed Mode Datalink: MSSR or Mode S by parameter setting, for secure investment
- SI capability
- Compact shelter version
- Low cost ownership
- Short term delivery
- Stand-alone or co-mounted with a primary S-band or L-Band radar

AEROSPACE

RSM 970 S
Monopulse Secondary Surveillance Radar/Mode S
TECHNICAL CHARACTERISTICS

• Range up to 256 NM
• Scan rate up to 15 rpm
• Meeting Eurocontrol Mode S station Functional Specification (EMS 3.11) and ICAO annex 10 vol IV lastest edition
• High duty cycle Tx 64% over 2.4 ms
• ISLS / IISLS - RSLS
• Advanced signal processing algorithms running on COTS PC Linux
• Dual timestamp function (GPS, NTP)
• Digital video
• Serial lines / Ethernet UDP/TCP IP outputs

ADVANCED MAINTENANCE TOOLS

Mode S benefits
• Improved data integrity
• Selective interrogations
• 25ft altitude reporting
• No garbling
• Reduced FRUIT

Improved situational awareness
Airborne data download through GICB:
• Call-sign
• Magnetic Heading
• Ground speed
• Air speed
• Vertical rate
• Selected FL
• ACAS RA

EASE OF MAINTENANCE

• Comprehensive embedded BITE
• Local / remote diagnosis capabilities
• Limited number of LRU types / Optimized spare batch
• Easy maintenance and low-cost of ownership

SAFETY

• High integrity and availability of data provided to the controller
• MTBCF = 55 000 h
• MITR = 25 min
• Fail safe capability
• SRG, CAP 670 approval

OPERATIONAL FUNCTIONS

• Terminal Manoeuvring Area / Approach and En-Route Operation in high density traffic
• Modes 1, 2, 3/A, C, S Up to level S transponders
• Elementary & Enhanced Surveillance II/SI code operation
• Enhanced mixed mode
• Full Datalink Surveillance Coordination Function
• Test transponder management

CHARACTERISTICS

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For more information: marketingatm@thalesgroup.com