

AIR FORCE RADAR SYSTEMS

TRB-06 ATAR







SPECIFICATIONS

Instrumental range: 180 km

Range accuracy: 30 m

Azimuth accuracy: **0.5**°

Elevation accuracy: 1°

Elevation coverage: 60°

Transmission: 1600 W

peak, L band

solid state

Interface Protocol: Asterix

IFF modes: 1, 2, 3/A, C mode 4 optional

Operational temp: -30°C to +50°C

FEATURES

- Automatic detection of Airborne targets
- ► TWS up to 100 targets
- Low power consumption (2500 WTyp)
- Extensive BIT
- ► High MTBF (2500 hour)
- ► Low MMTR (20 min)
- ► Solid State T/R module
- ► Elevation multi-beam by phased array technology
- Extensive ECCM capabilities
- Digital receiver
- Digital pulse compression
- Digital beam forming

APPLICATIONS

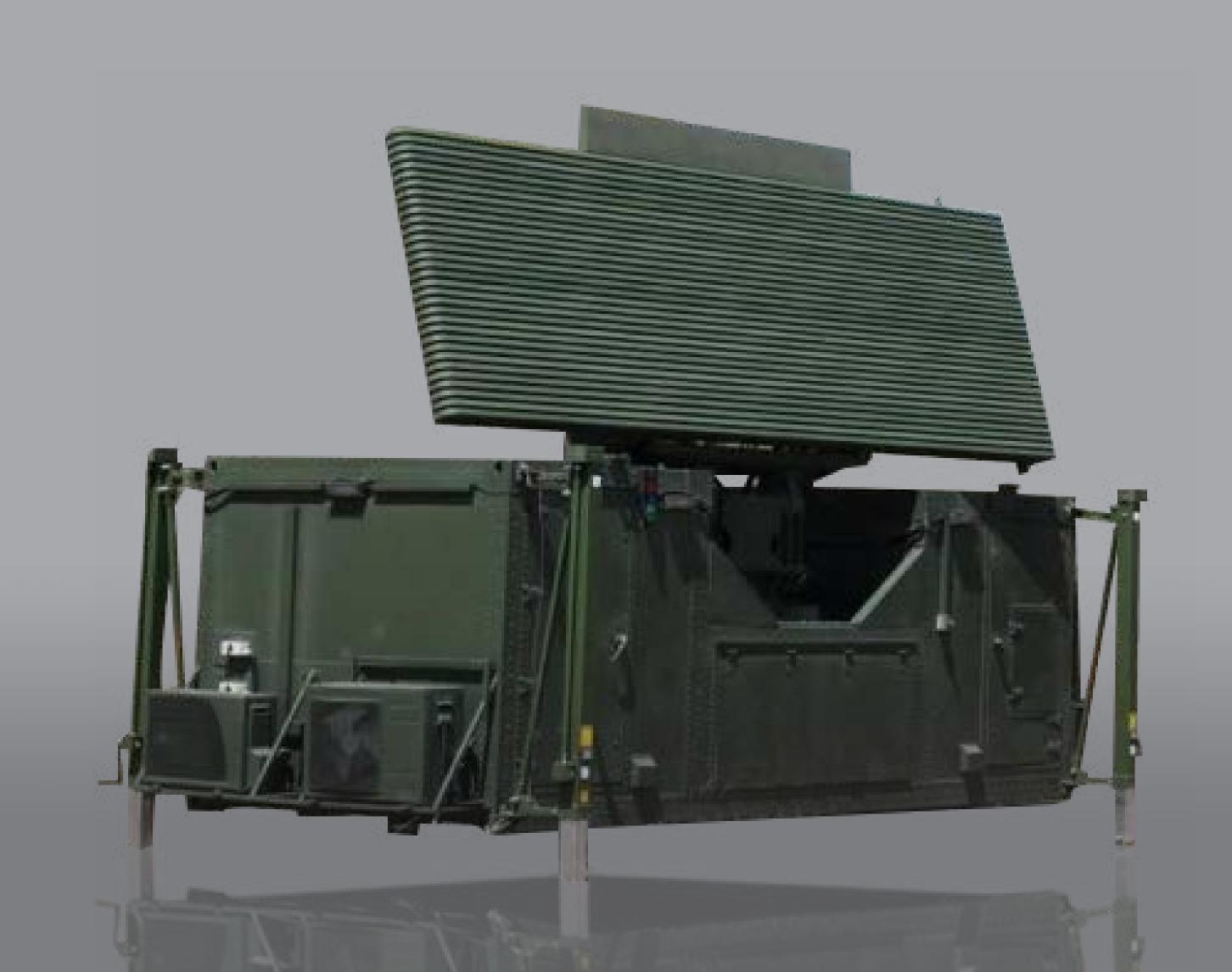
- Search radar for supporting surface-to-air missile system
- ▶ Gap filler
- ► Local air defense C3 System
- Protection of sensitive sites





AIR FORCE RADAR SYSTEMS

TRB-88 MR





SPECIFICATIONS

Operations frequency: S band

Antenna type: Multi beam/Phased array

Instrumental range: 480 km

Azimuth coverage: 360°

Elevation coverage: 30°

Height: Up to 100 kFt

IFF mode: 1, 2, 3/A, C

Transmitter type: Solid state

Number of SS module: 32

MTTR time: Less than 30 min

MTBCF: Over 2.100 hours

Range resolution: 150 m

Azimuth resolution: 5 deg

Plot extractor: 2.000 plots/scan

FEATURES

- Digital beam forming in elevation
- Coherent Pulse-Doppler processing
- Target classifications
- Ballistic missile detection
- Advanced ECCM capabilities
- Local and remote operation
- Integrated IFF antenna
- Operation room, antenna and hardware in a single container

APPLICATIONS

- Air traffic control
- Air defense system
- Early warning
- Air defense operations





COMMAND, CONTROL, COMMUNICATIONS, COMPUTER & INTELLIGENCE C41

COMMON FUNCTION

- Airspace surveillance system
- ► Detection, evaluation & classification of threats
- Assists threat countermeasures selection
- Data exchange with other levels
- Recording of all data
- Data & voice communications
- ► Target interception decision support

FEATURES

- Different command & control level support
- Modern COTS hardware
- Fully redundant & data secured system
- Scalable, modular and configurable
- Open architecture enables integration with external radars, interfaces & functionalities with no impacts on the system
- Simple maintenance



NATIONAL C4I SR



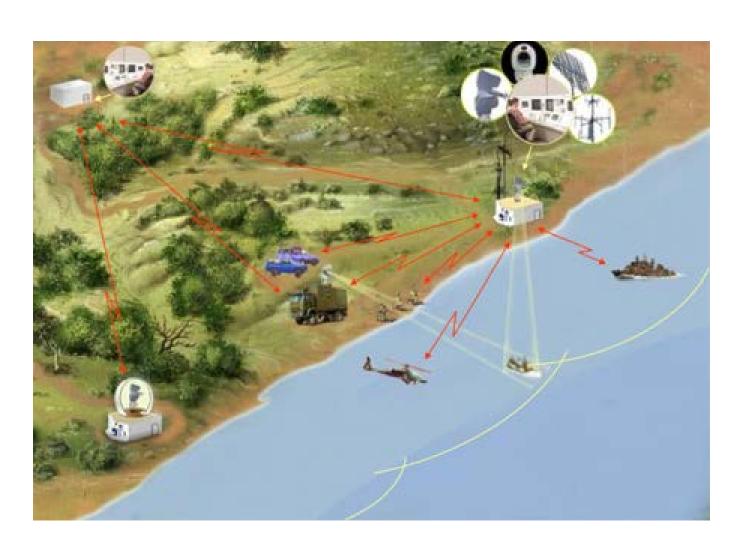
OPERATIONAL CENTER



COASTAL PROTECTION



COASTAL PROTECTION



COMBINED EFFORTS

COMMON FUNCTION

- Territorial water protection
- Coastal & asset protection
- Sea port protection
- Offshore asset protection
- Fishing rights protections
- Natural assets
- Anti smuggling

FEATURES

- Layered command & control
- Integration with National command & control system
- Modern hardware
- Easy maintenance



COASTAL PROTECTION

SPECIFICATIONS

OTH radar

Max range: 200 NM

Min range: 24 NM

Frequency: **HF Band**

Persistent coastal surveillance radar

Frequency: X band

Multi beam solid state radar

High doppler, range & azimuth

Electro optical sensors

Day/night cameras

Stabilized systems

Long/short range options

Integrated with C4ISR

APPLICATIONS

Coastal protection systems



MULTI BEAM SOLID STATE
SURVEILLANCE RADAR



ELECTRO OPTICAL SYSTAMS



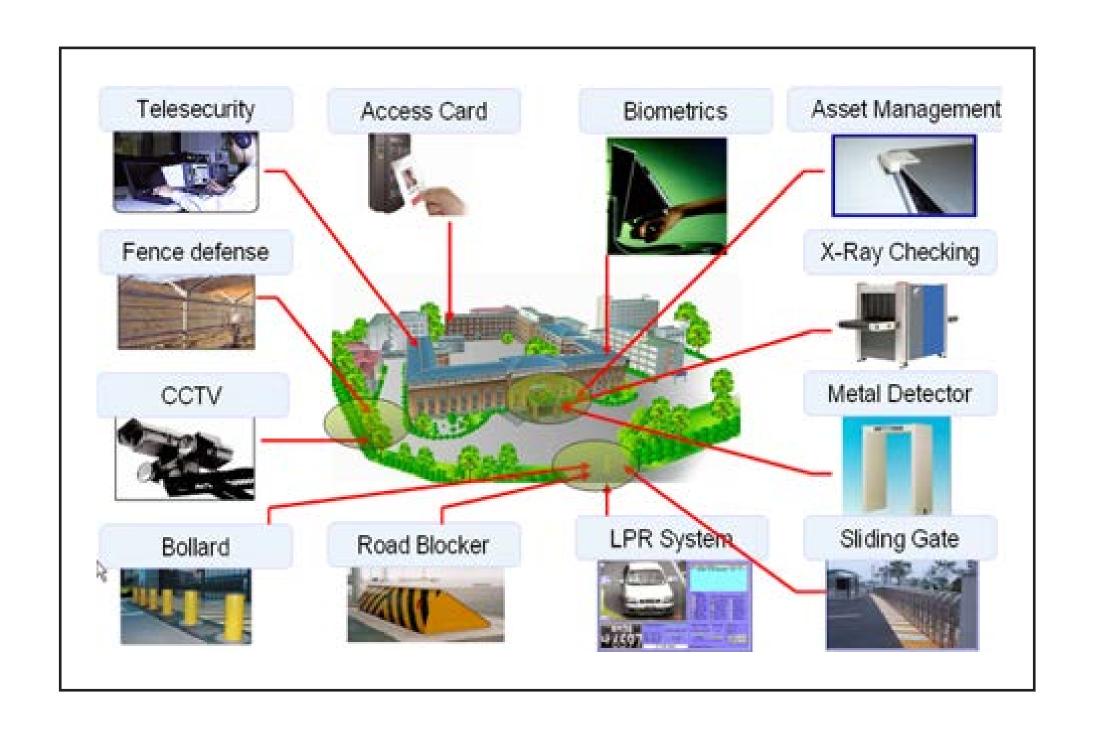
OTH RADAR ANTENNAS



VIDEO SURVEILLANCE, ACCESS CONTROL & NETWORK

VIDEO SURVEILLANCE SYSTEM

- Implemented through video management systems
- Broad array of sensors, cameras & other devices controlled & coordinated by central servers
- Integral support for alarm/incident reports with direct access to related video recordings
- Integration of detectors & sensors
- Integrated control of output devices:
 - Gates
 - Lights
- Consolidated view of multiple & remote sites



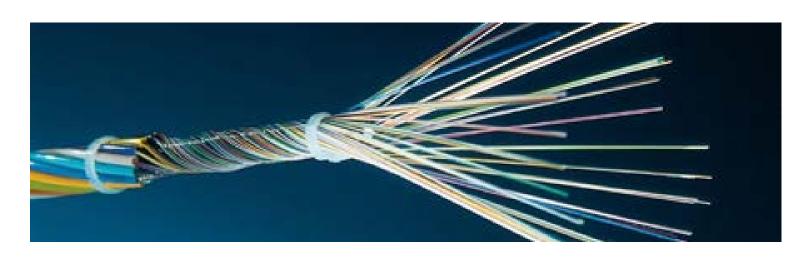
OUTPUT DEVICES INTEGRATED CONTROL



VIDEO SURVEILLANCE, ACCESS CONTROL & NETWORK

NETWORK SYSTEMS

- ► Fiber optics network
- Unlimited Bandwidth
- Long transmission distances
- ► EMI & RFI immunity
- Secure transmission
- VPN secure connection over public network



FIBER OPTIC NETWORKS

ACCESS CONTROL

- RFID based high security access control system
- Robust & Resistant to computer network failures
- Fingerprint verification
- Sensitive security data protection
- Military standards compliant hardware
- Quick response & easy to use
- Proper back-office software & hardware tools infrastructure

ACCESS CONTROL - DATA PROTECTION

- 3DES/AES cryptographic engine
- Tags & reader device initialized by end user only
- ► 128-bit AES cryptographic key implemented
- Key inaccessible to other parties



RFID SECURITY ACCESS
CONTROL SYSTEM



FINGERPRINT VERIFICATION



OTHER TRB PRODUCTS

- Despot 4x4 armoured multi-purpose vehicle
- Drina Small calibre ammunition production line
- ► MH-17 Demining machine
- RS9 Vampir semi-automatic 9mm pistol

- ► Fuzes for military use
- Mobile security systems
- ► Mobile power & water systems

For further information please contact your TRB representative or:

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CONTATCT INFORAMTION

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