



At the Core of Modern Force Protection Systems



RPS - 10

Radar Sensors for Active Protection Systems

The RPS-10 Radar detects all relevant threats that may be fired at combat vehicles (RPGs, ATGMs, Projectiles) and provides the threats' data to the Active Protection System (APS) for neutralization of the threats.

The RPS-10 is a member of RADA's Compact Hemispheric Radar (CHR) family, enabling advanced force protection solutions for combat vehicles.

Key characteristics of the CHR technology:

- Pulse Doppler, Software-Defined Radars
- AESA (Active Electronically Scanned Array), Armored Antenna
- Extremely High Elevation Coverage
- Non-Rotating, Solid State Radars
- Digital: Beam Forming, Receivers, Pulse Compression
- Compact and Mobile, for Tactical Applications
- High Reliability
- Superior Performance-to-Price Ratio

Hemispheric coverage is achieved by the simultaneous operation of either three or four identical and interchangeable radars, each covering 120° in Azimuth and 70° in Elevation.

The RPS-10 meets the needs of any APS, and can be easily integrated through its standard Ethernet interfaces.

RPS - 10

Radar Sensors for Active Protection Systems

RPS-10 Performance:

Parameter	Performance
Detected Threats	RPGs, ATGMs, Projectiles
Azimuth Coverage	360° using 3 or 4 panels
Spatial Accuracy	Less than 0.5°
System Weight	54 kg (for 3-Panels Configuration)

CHR Specifications:

Parameter	Specification
Frequency Range	S Band
Antenna	Active Electronically Scanned Array (AESA)
Spatial Coverage	120° in Azimuth, 90° in Elevation
Panel Dimensions	474 mm (w) by 270 mm (h) by 163 mm (d)
Weight	18 Kg
Operating Temperature	-40°C to +65°C
Operating Voltage	28 V Nominal (16 V to 32 V, per MIL-STD-1275)
Power Consumption	Up to 110 W per Panel (software controlled)
Cooling	No Forced Cooling
Interfaces	Gigabit Ethernet, Discrettes, Serial Channels

CHR Radar

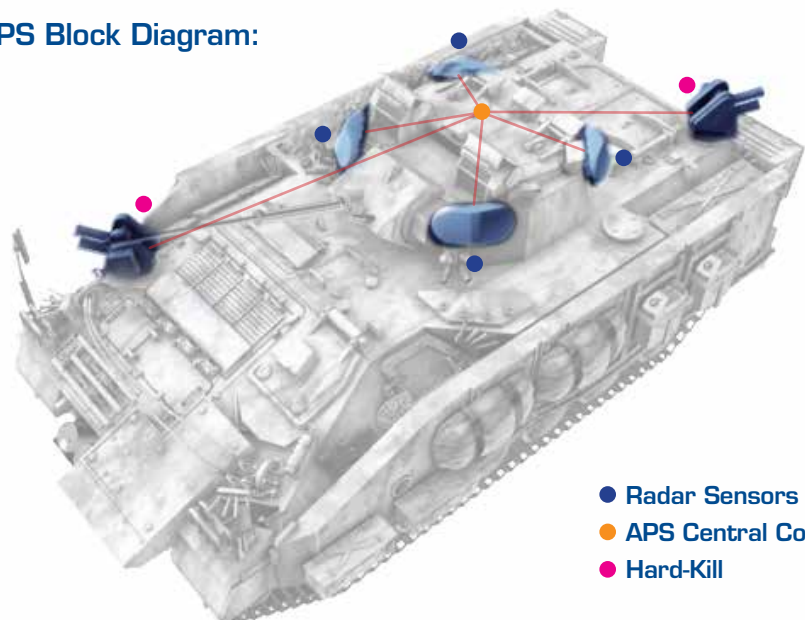


Front View



Rear View

Typical APS Block Diagram:



- Radar Sensors
- APS Central Computer
- Hard-Kill



7 Giborei Israel Blvd.,
P.O. Box 8606
Netanya, 4250407
Israel
Tel: +972-9-892-1111
Fax: +972-9-885-5885
E-mail: mrkt@rada.com

www.rada.com



RADA
ELECTRONIC INDUSTRIES LTD.