EDGE

TAWAQ-S

PERSISTENT PROTECTION TARGET CLASSIFICATION

GROUND-BASED 3-D SURVEILLANCE RADAR

TAWAQ-S is a ground-based 3D surveillance radar suited for border protection, coastal surveillance, and counter rocket, artillery and mortar (C-RAM) applications.

This radar provides high update rate for classification of objects through utilising S-band staring-array technology. These unique features of the radar provide persistent surveillance and tracking over critical geographic areas, whether land or sea borders, or other high-value locations.

SPECIFICATIONS

KEY FEATURES

- Modern, compact, software defined
- High update rate AESA/ MIMO staring array radar
- GaN technology
- Automated classification of objects
- Ethernet (copper/fibre-optic) control/data interface
- Multipath mitigation

Dimensions (L x W x H)	0.9 m x 0.8 m x 0.2 m (single panel)
Frequency band	S-band
Coverage	Range: 50 km / 90 km Azimuth: > 90° (360° using 4 panels) Elevation: 90° (-15° to 75°)
Accuracy	Azimuth: < 0.5° Elevation: < 0.5°
Maximum detection range	RCS 0.5m^2 (Fixed-wing UAV): 45 km RCS 2m^2 (Fighter): 60 km
Track Update Rate	10 Hz / 20 Hz