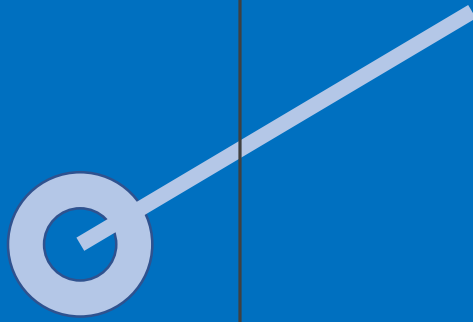


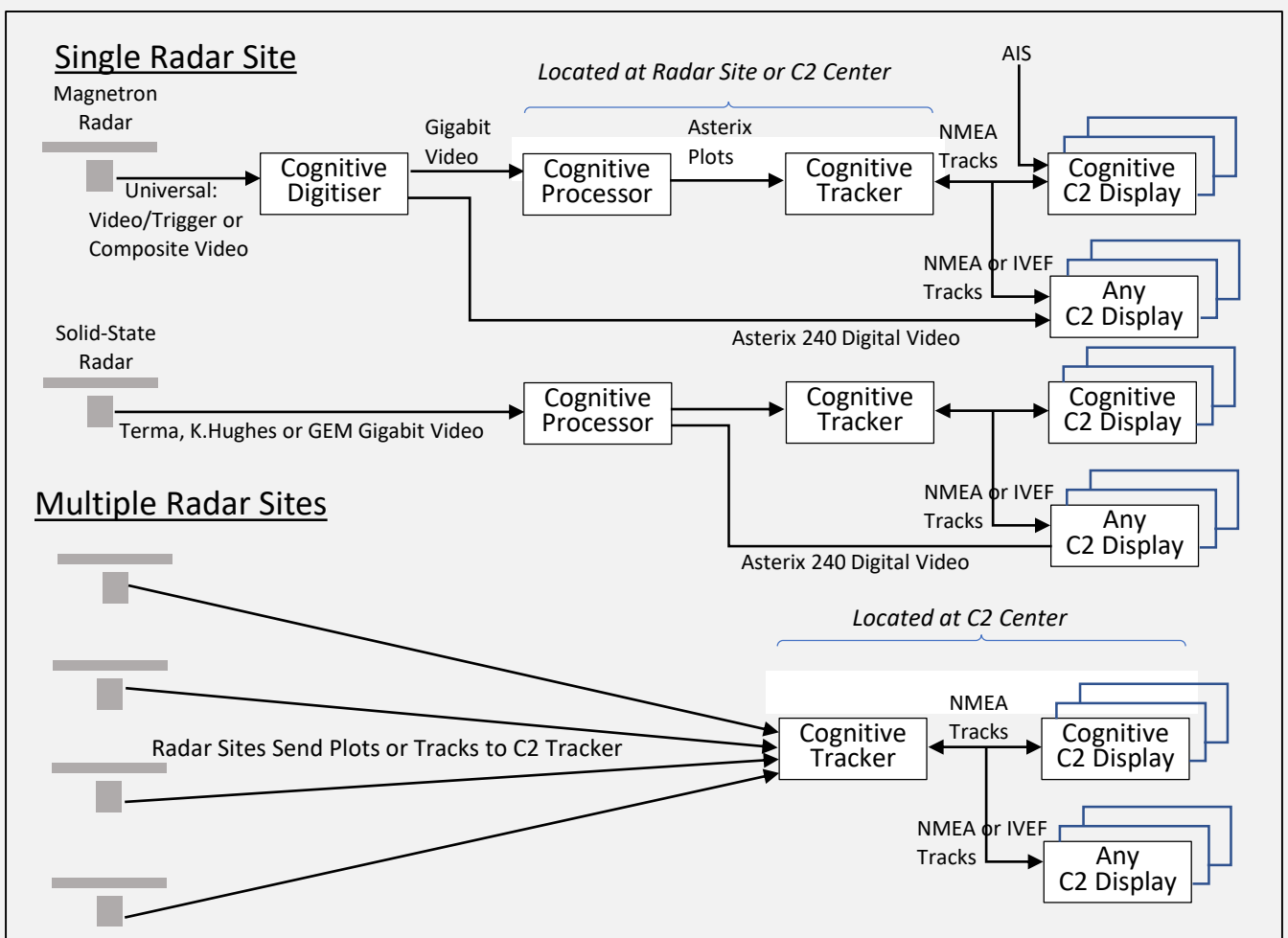
**COGNITIVE RADAR
CORPORATION**



COGNITIVE TRACKER™

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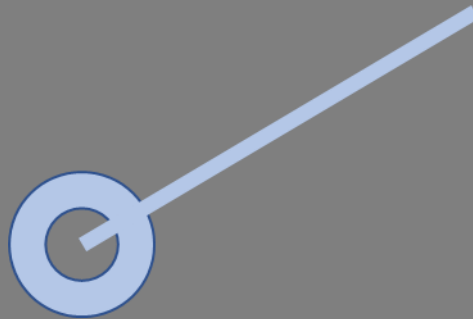
- Detects the smallest targets in rough seas and rain
- Connects to any magnetron or solid-state radar
- Cognitive Tracker™ installed at the radar site or at C2 Center
- Processes plots or tracks from multiple radar sites
- Meets shipboard environmental specifications: No fans or cooling required
- Standard Open-Source Interfaces:
 - Digital Video: ASTERIX CAT240
 - Plots: ASTERIX CAT48
 - Tracks: NMEA, ASTERIX CAT48 and IVEF



Four modules for flexible low-cost installation:

1. **Cognitive Digitiser™** (for Magnetron Radars)
 - **Universal interface for all magnetron radars** - both video/trigger and composite video
2. **Cognitive Processor™**
 - **Controls Magnetron or Solid-State Radar** (incl. Terma, Kelvin Hughes and GEM)
 - **Radar Interference Rejection** - detects and rejects returns from other radars
 - **Land Masking** - hides land and other non-target areas
 - **Adaptive Clutter Mapping** – improves target detection in clutter
 - **Scan Averaging** - improves detection of small slow targets
 - **Ordered Statistic Detection** - maximises small target detection in rough seas
 - **Non-Target Plot Classifier** - wake, sidelobes, multipath and blockage artifacts
3. **Cognitive Tracker™**
 - **Automatic Track Initiation** - minimises false tracks in heavy clutter and in mapped areas
 - **Multiple Hypothesis Tracker (MHT)** –tracks when plots are missing and targets maneuvering
 - **Interacting Multiple Model (IMM) Track Filtering** - retains track on rapidly maneuvering targets
 - **Automatic Track Deletion** - where track quality and confidence are below limit
 - **Multi-Radar Track Association or Fusion**
 - **1000 Track Capacity**
4. **Cognitive Display™**
 - **Overlays Radar and AIS Tracks on Chart.** Multiple chart views on up to four monitors

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