AMMR 2.0 - AESA radar family

Architecture, applications and capabilities



BAAS visualisation; configuration may vary.

3D multiband radar for SHORAD/VSHORAD; scalable ground, stationary, mobile and naval integration.

CAPABILITY PROFILE

- Software-defined pulse-Doppler; simultaneous threat scanning; AESA/GaN; adaptive digital beamforming.

- AI classification: FW/RW/RAM/UAS/missiles. SHORAD guidance. Direct RF synthesis/sampling (TX/RX).

- S/X-band operation; smart calibration; scalable dual-band configurations; passive/multistatic capability.

- ECCM: wideband management; track-on-jammer; asynchronous pulse suppression; anti-cover pulse; low-intercept probability; SLC/MLC/SLB.

- Compact/lightweight; modular, easy installation and operation; stationary/mobile/naval integration; on-the-move operation.

- Fault-tolerant reliability; military-standard qualification.

- Dual-band sensing supports detection, classification, angular accuracy and resolution, including swarm separation.

Availability and supply are subject to technical/commercial review and required licences, end-use checks and approvals.
Compliance & integrity: baascorp.com/compliance

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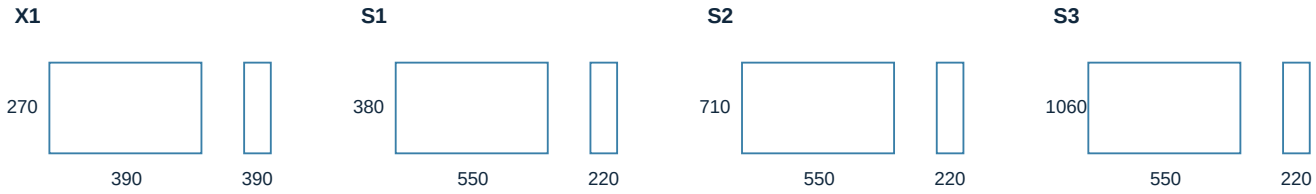
Variant specifications, published detection ranges and dimensional labels

Parameter	AMMR 2.0 X1	AMMR 2.0 S1	AMMR 2.0 S2	AMMR 2.0 S3
Band	X-band	S-band	S-band	S-band
Coverage	360° azimuth; -20° to +70° elevation			
Technology	AESA staring antenna; GaN transmitters			
Interfaces	Ethernet / ASTERIX			
Input	28V			
Consumption	2.3kW	2.5kW	5kW	7.5kW
Dimensions[1]	0.39×0.27×0.155	0.55×0.38×0.22	0.55×0.71×0.22	0.55×1.06×0.22
Panel weight	18kg	25kg	50kg	75kg
Temperature	-40°C to +50°C; plus solar radiation			

DETECTION RANGE (km)

Target / km	X1 Search	X1 Cued Search	S1	S2	S3
Fighter aircraft	>20	>30	>20	>28	>34
Hovering helicopter	>12	>18	>12	>17	>20
Missile	>10	>15	>10	>14	>17
RAM / Micro UAS	>5	>7.5	>5	>7	>8.5

DIMENSIONAL SKETCH LABELS[1]



1. X1 table/sketch dimensions differ; units require confirmation. Sketches are schematic, not installation drawings.

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