

AIRBORNE RADAR JAMMERS

MODEL	CONFIGURATION	JAMMER TYPE	FREQ RANGE	SENSITIVITY
BAE Systems; Nashua, NH, USA; +1 603-885-6065; www.baesystems.com				
ALQ-239 Digital Electronic Warfare System (DEWS)	Internal – integrated radar warning/situational awareness, jammer and countermeasures dispenser	Defensive	*	Very High
ALQ-250 Eagle Passive Active Warning Survivability System (EPAWSS)	Internal – integrated radar warning/situational awareness, jammer and countermeasures dispenser	Offensive and defensive	*	Very High
ALQ-251 AC/MC-130J radio frequency countermeasure (RFCM) system	Internal – integrated radar warning/situational awareness and jammer	Defensive	*	Very High
AN/ASQ-239 F-35 electronic warfare/countermeasure system	Internal – integrated radar warning, targeting support and countermeasures	Offensive and defensive	*	Very High
Elbit Systems EW and SIGINT - Elisra; Bene Beraq, Israel; +972-3-6175411; www.elbitsystems.com/elisra				
Light SPEAR™	Internal	Self-protection, support jammer, stand-off, stand-in	Full band	*
Micro SPEAR™	Internal	Electronic attack, self-protection and support system for small platforms	2-10 GHz (Expandable to 18 GHz)	*
SPJ-20V5	Internal	Self-protection	Full band	*
ALQ-903	Pod	Self-protection, support jammer, stand-in	Full band	*
Elettronica; Rome, Italy; +3906 4154 745; www.elt-roma.com				
ELT 568	Pod/Internal RECM	Self-protection, stand-off jammer and escort Jammer	B to J bands + K	Very high
ELT 590 Spark	Jammer Cartridge	Electronic deception	C to X bands	Very high
VIRGILIUS	Pod/Internal RECM	Self-protection, stand-off jammer and escort Jammer (EDGE version)	C to J	High Sensitivity
Harris Corporation; Melbourne, FL; +1 321-729-2289; www.harris.com				
ALQ-211	Pod/Internal	Self-protection, situational awareness	*	*
ALQ-214(V)4/5	Internal	Self-protection, situational awareness	*	*
ALQ-172(V)1/2	Internal	Self-protection, situational awareness	*	*
ALQ-161A	Internal	Self-protection, situational awareness	*	*
ALQ-99 Universal Exciter Upgrade	Pod/Internal	Stand off, airborne electronic attack	*	*
HENSOLDT; Ulm, Germany; +49 731-392-2861; www.hensoldt.net				
Multi Frequency Jammer System (MFJS)	Pod	Self-protection, support jammer, stand off, stand-in	1-18 GHz	*
Indra; Madrid, Spain; +34-91-480-50-01; www.indra.es				
ALQ-500 (Export Version)	Internal	Self-protection, support jammer	6-18 GHz	-40 dBm
Leonardo-Finmeccanica; Luton, UK; +44 (0) 1 58 28 86 000; www.leonardocompany.com				
Modular Counter Measure System	Pod/Internal	Self-protection, support jammer	E to J bands	High
CJP	Pod	Self-protection	G to J bands	High
EuroDASS / Praetorian	Internal	Self-protection	G to J bands	High

ERP	SIZE (HxWxL inches/mm/cm)	WEIGHT	FEATURES
*	*	*	Scalable, adaptable software- and firmware-based processing; fast response times
*	*	*	Scalable, adaptable software- and firmware-based processing; ultra-fast response times
*	*	*	Scalable, adaptable software- and firmware-based processing; fast response times
*	*	*	Scalable, adaptable software- and firmware-based processing; fast response times
Transmitter dep. (selectable)	195/127/345 mm	11 kg	Unified ESM & ECM solution, embedded into a single compact LRU; advanced technology of Digital receivers and RF Memory (DRFM)
Transmitter dep. (selectable)	*	1.5 kg	Compact, modular, passive and active EW solution designed for small airborne, ground and maritime manned/unmanned platforms. Based on wideband digital receivers and DRFM channels
Transmitter dep. (selectable)	175/164/300 mm	12 kg	*
Transmitter dep. (selectable)	590/864/3628 mm	180 kg	*
High/very high	SP: 1 ATR + active arrays; SJ: version dep.	SP: 65 kg; SJ: version dep.	Solid State TX/RX
High	cartucce flare/chaff (dimensions 2 in x 1 in x 8 in)	<300g	Expendable Decoy; Solid State Tx/Rx
High/very high	ATR LONG (MPU)	145 Kg without cables	Advanced multifunction capability, through simultaneous ESM and ECM operation. Fast and reliable RF emitter recognition in high dense electromagnetic environments and of complex radar waveforms. Multi-threat capability providing jamming effectiveness against simultaneous threats. AESA based Receiver/Transmitter with configurable ERP
*	*	*	Multiple versions within ALQ-211 family of systems; ALQ-211 AIDEWS flown on F-16s in internal and podded configs; also flown on MH-47 and MH-60 helicopters
*	*	*	Flown on F/A-18E/F Super Hornets; latest variant also supports F/A-18C/D Hornets
*	*	*	ALQ-172 (V)1 system flown on the AFSOC legacy AC/MC-130 U/H; the (V)2 system is flown on USAF Global Strike Command B-52H
*	*	*	ALQ-161 flown on the USAF Global Strike Command B-1B supersonic strategic bomber aircraft
*	*	*	ALQ-99 is US Navy's primary standoff jamming system, flown on EA-6B Prowler and EA-18G Growler electronic attack aircraft; multi-pod system covering multiple spectrum bands
*	400 x 600 x 2700 mm	280 kg	Jamming pod mainly for radar operator training and test & evaluation
•	*	115 kg	Multiple techniques; multi-threat capability
20 W - 10 kW	1 or more 1/2 ATR profile chassis	20 kg min	Uses industry standard modules and racks; customer selectable frequency range, receiver type, sensitivity, DRFM configuration and transmitter
Medium	420 mm (D) x 3.6 m (L)	330 kg	A significant upgrade program for jamming capability upon the Tornado GR4
Medium	Approx 15 avionics units w/ various dimensions	170 kg	Fully integrated DASS including ESM, ECM and active MAW; part of Eurofighter Typhoon

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My-Konsult System AB; Stockholm, Sweden; +46 703 44 03 50; www.mykonsult.com				
Astor IV	Pod/Internal	Stand-off, escort and self-protection	Selectable C to J bands, opt. K	≥ 65 dBm
Northrop Grumman; Rolling Meadows, IL; +1 847-259-9600; www.northropgrumman.com				
ALQ-135M	Internal	Self-protection	2-20 GHz	•
ALQ-162(V)6	Internal	Self-protection	6-20 GHz	•
Rafael; Haifa, Israel; +972-4-879-4444; www.rafael.co.il				
Sky Shield	Pod	Support jammer	1-18 GHz	-70 dBm
Lite Shield	Pod	Self-protection/close support	2-18 GHz	-65 dBm
Raytheon; El Segundo, CA; +1 805-967-5511; www.raytheon.com				
ALQ-187(V)2	Internal	Self-protection	*	*
ALQ-184	Pod	Self-protection	*	*
Advanced Countermeasures Electronic System	Internal	Self-protection	*	*
Miniature Air Launched Decoy Jammer	Decoy	Stand-in	*	*
Next Generation Jammer	Pod	Stand-off	*	*
Rodale Electronics, Inc.; Hauppauge, NY; +1 631-231-0044; www.rodaleelectronics.com				
AN/ALQ-167 Jammer	Pod	Training	Selected bands w/in .05-10.5 GHz	*
SAAB, EW Systems, Business Area Surveillance; Sweden; +46-8-580-840-00; www.saabgroup.com				
Arexis EA Pod	Pod	Electronic attack / Escort jammer	0.15-4 GHz	*
Arexis SPJ Pod	Pod	Self-protection	2-18 GHz	*
Arexis Fighter integrated ECM	Internal	Self-protection	2-18 GHz	*
Thales Airborne Systems; Elancourt CEDEX, France; +33 (0) 1 34 81 95 96; www.thalesgroup.com				
HBJ (High Band Jammer)	Internal	Self-protection	H to J bands	*
SPECTRA	Internal	Self-protection	G to J bands	*

SURVEY KEY - AIRBORNE RADAR JAMMERS

MODEL

Product name or model number

CONFIGURATION

Jammer configuration (Internal, pod or both)

JAMMER TYPE

Type of radar jammer (self protect, support jammer, etc.)

FREQ RANGE

Operating frequency range (in GHz)

SENSITIVITY

Typical receiver installed sensitivity

ERP/GAIN

ERP or Gain (whichever is applicable to the system)

SIZE

H x W x L/D in inches or centimeters

WEIGHT

Weight in kg

* Indicates answer is classified, not releasable or no answer was given.

ERP	SIZE (HxWxL inches/mm/cm)	WEIGHT	FEATURES
Selectable (dep. on MPMs and antennas)	28 x 42 x 283 cm	Dual Pods w/ E to J 5 band system; ≤ 100 kg each	RWR library; data bank; ELINT during jamming; EW training; threat emitter simulation
•	•	•	Flown on F-15s as part of TEWS
•	•	•	Flown on a range of aircraft and on Egyptian Air Force AH-64 helicopters
High ERP	380 x 56 x 86 cm	650 kg	Solid state steered array; fully autonomous and accurate jamming against several targets, includes accurate direction finding; one certified pod contains entire system
High ERP	220 x 41 (dia) cm	220 kg	Solid state steered array; fully autonomous and accurate jamming against several targets, includes accurate direction finding; one certified pod contains entire system
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
4-8 kW	350 x 26 cm	175 kg	Noise, deception, coherent techniques
*	0.38/0.46 m x 4 m	350 kg	Fwd and Aft coverage with GaN AESAs, Wideband DRFM, Ultra Wideband Digital Receivers + VHF/UHF capabilities. Side coverage optional. Other frequency bands available.
*	0.38/0.46 m x 4 m	version dependant, ~300 kg	GaN AESAs, Wideband DRFM, Ultra Wideband Digital Receivers + extensive recording capabilities. Possible to operate in Autonomous mode.
*	*	*	GaN AESAs, Wideband DRFM, Ultra Wideband Digital receivers + extensive recording capabilities, central processing unit with Ethernet interface.
*	*	62 kg	In service on Mirage 2000
*	*	*	In service on Rafale

UPCOMING PRODUCT SURVEYS

August 2018: FPGA Boards for EW and SIGINT Applications

September 2018: HF SIGINT Systems