

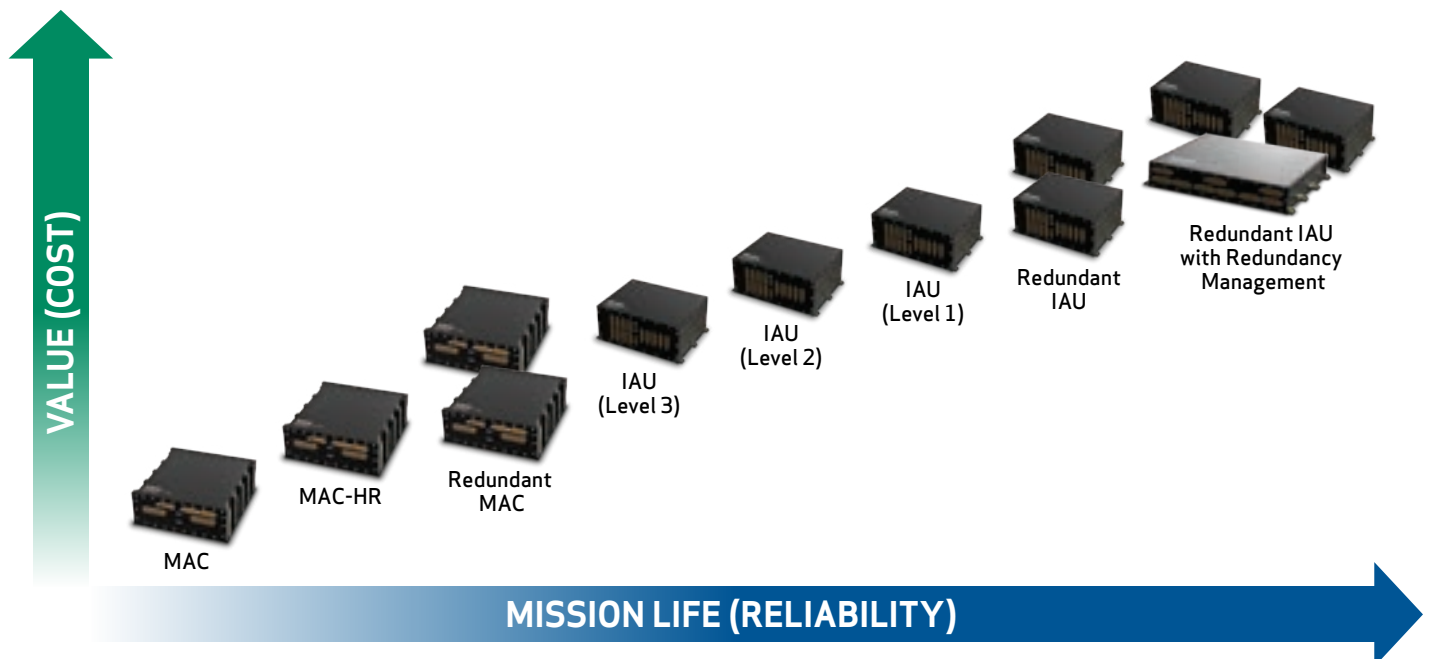
AVIONICS FOR ANY MISSION



Moog has been a leader in spacecraft avionics for over 20 years, providing unit and board level avionics for Civil, NASA, and Military customers in all orbit regimens. Moog provides an array of avionics products to meet a variety of mission requirements.

Both the Integrated Avionics Unit (IAU) and Main Avionics Controller (MAC) combine traditional C&DH and EPS functions into a single unit. The IAU utilizes traditional EEE parts in Level-1, -2, and -3 part grades while the MAC takes advantage of radiation tolerant, automotive grade parts – significantly reducing material costs. The figure below illustrates the flexibility of Moog avionics products in terms of value and mission life.

For low-cost missions, the MAC and Level-3 IAU variant provides exceptional value without compromising on typical Avionics functionality. For longer life missions, Level-2 and Level-1 IAU variants provide identical functional capability with higher pedigree EEE parts. When failure is not an option, IAUs can be configured in redundant systems to provide single fault-tolerant operation.



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SPECIFICATIONS



Feature	MAC	MAC-HR	Redundant MAC (Integrated Redundancy)	IAU – Level 3	IAU – Level 2	IAU – Level 1	Redundant IAU (Integrated Redundancy)	Redundant IAU (with Redundant Management Unit)
Size (cm)	23.6 x 24.5 x 8.8	23.6 x 24.5 x 8.8	23.6 x 24.5 x 8.8 x2	25.1 x 21 x 11.9	25.1 x 21 x 11.9	25.1 x 21 x 11.9	25.1 x 21 x 11.9 x2	IAU 25.1 x 21 x 11.9 x2 RMU 12.2 x 10.4 x 2.15
Mass (kg)	5.8 (TYP)	5.8 (TYP)	5.8 (TYP) x2	8.3 (TYP)	8.3 (TYP)	8.3 (TYP)	8.3 (TYP) x2	IAU 8.3 (TYP) RMU 4.9 (TYP)
Power (W)	12-40	12-40	15-80	37	37	37	42 (Warm Spare) 65 (Hot Spare)	51 (Cold Spare) 75 (Hot Spare)
Max Power Thruput (W)	2,100	3,000	3,000	1,800	1,800	1,800	1,800	1,800
EEE Parts	Screened Automotive	EEE-INST-002 Level 1/2/3	Screened Automotive; EEE-INST-002 Level 1/2/3	EEE-INST-002 Level 3	EEE-INST-002 Level 2	EEE-INST-002 Level 1	EEE-INST-002 Level 1/2/3	EEE-INST-002 Level 1/2/3
Orbit	LEO	LEO-GEO Interplanetary	LEO-GEO Interplanetary	LEO	LEO-GEO Interplanetary	LEO-GEO Interplanetary	LEO-GEO Interplanetary	LEO-GEO Interplanetary
Mission Life	3-5 Years (TYP)	3-10 Years (TYP)	5-15 Years (TYP)	3-5 Years (TYP)	5-7 Years (TYP)	7-10 Years (TYP)	10-15 Years (TYP)	10-15 Years (TYP)
Environment	GEVS	GEVS	GEVS	GEVS	GEVS	GEVS	GEVS	GEVS
Form Factor	Slice	Slice	Slice	3U cPCI	3U cPCI	3U cPCI	3U cPCI	3U cPCI
Capacity	Variable	Variable	Variable	10 Slots	10 Slots	10 Slots	10 Slots per IAU	10 Slots per IAU
Redundancy Approach	Optional Integrated Redundancy with Dual-Box Configuration	Optional Integrated Redundancy with Dual-Box Configuration	Integrated Redundancy State Data Storage Dead Bus Recovery	Optional Integrated Redundancy with Dual-Box Configuration	Optional Integrated Redundancy with Dual-Box Configuration	Optional Integrated Redundancy with Dual-Box Configuration	Integrated Redundancy State Data Storage Dead Bus Recovery	Single-Fault Tolerant Triple-Voted Control Power Management Interface Cross-Strap State Data Storage Dead Bus Recovery



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