

ATLAS ICU

Initiation Control Unit

Get faster in the new space race.



The **ICU (Initiation Control Unit)** is an advanced solution designed for easy initiation of **hold-down and release actuators** in ground test campaigns of space mechanisms. With **intuitive control software**, configuration of release scenarios becomes simple - achieved within seconds with a few clicks on your PC. This user-friendly unit ensures **synchronized activation** of up to 5 actuators via current pulse with millisecond precision.



Prioritizing safety, the ICU integrates robust **safety features**. Activation from internal memory and a tripled safety barrier ensure enhanced protection during actuator initialization.

The **ICU** package includes the unit itself, accompanied by a laptop with software for seamless control, and a dedicated transportation box for convenience and protection during transit and storage.

ATLAS ICU parameters	
Actuation steps	Activation – Arming – Fire
Power source	50 A 12 V 600 W
Number of actuators	up to 5 actuators (10 power lines)
Arming current	0.125 A
Max. actuation current (1.2 Ohm reference circuit)	≤ 5 A (pulse length 1 s 10 pwr lines) 5.5 – 6.0 A (pulse length 0.5 s 8 pwr lines) 6.5 – 8.0 A (pulse length 0.25 s 6 pwr lines) 8.5 – 10 A (pulse length 0.15 s 4 pwr lines)
Status monitoring	LED & Software
Actuation	PC controlled for multiple actuators
Pulse accuracy	< 10 ms
Cleanliness	Closed design - clean room compatible
Actuation safety	Triple security, activation from internal memory
Data interface	USB, connected to Windows PC
Temperature range	0°C to 40°C
Dimensions	250 x 270 x 100 mm
Mass	2.9 kg without cables
Power supply	230 VAC

Alumni of:

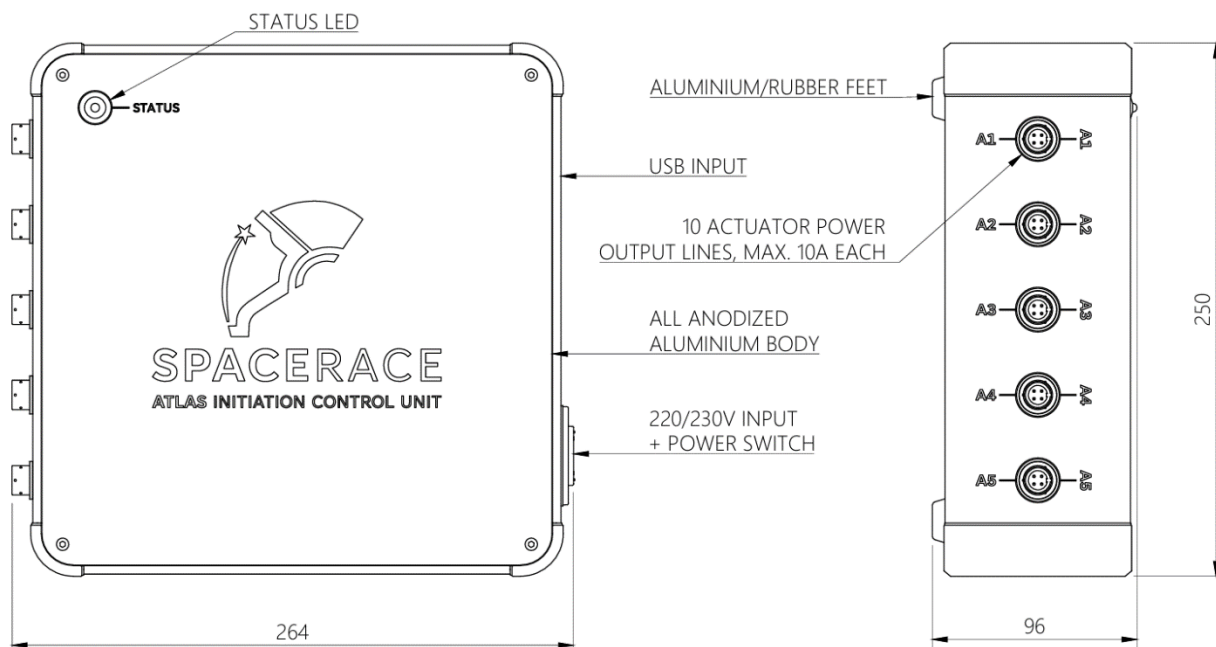


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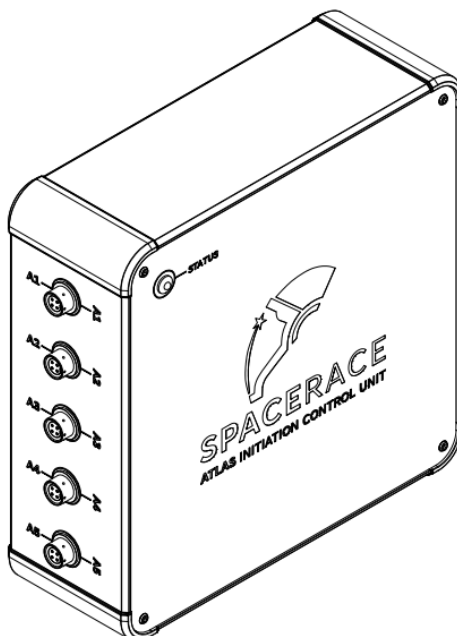
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ATLAS ICU INTERFACES

FRONT VIEW:



3D VIEW:



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