



FUSEBLOX™

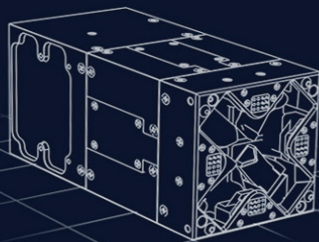
A PATENTED, ALL-IN-ONE SPACECRAFT DOCKING AND CONNECTION DEVICE



FuseBlox™ are all-in-one spacecraft docking and connection devices for use on a variety of space structures. FuseBlox facilitate both soft and hard capture with near-zero momentum transfer and provide high-reliability electrical power and data connectivity. Individual FuseBlox are not gendered and are designed to fit a variety of applications. The self-aligning grapple technique accommodates small spacecraft rendezvous misalignments, while device symmetry enables four secure mated configurations.

FEATURES

- Multiple Docking Orientations
- Power and Data Transfer
- Embedded Redundancy
- Low Form Factor
- Androgynous
- Self-Aligning



VISION

While there are numerous uses for this hardware, SpaceWorks® envisions a modular building system that accelerates the utilization and commercialization of LEO, GEO, and beyond. Our vision brings together spacecraft modules, potentially made by different companies or nations, to connect, support, and communicate with one another to create a system that is more robust and capable than any one module. Our hope is to ultimately improve the support of structures, platforms, and serviceable spacecraft with the use of FuseBlox.

Interested in FuseBlox?

www.spacework.aero/fuseblox info@spaceworks.aero 770.379.8000

CONNECTION SPECIFICATIONS

Data Transfer
High Mode: Gigabit Ethernet
Low Mode: MIL-STD-1553
Power Transfer
1120 W (nominal), 1500 W (maximum)

PHYSICAL PROPERTIES

Length	10 cm	Width	10 cm
Depth	20 cm	Mass	≤ 3.2 kg

U.S. Pat. No. 11,128,082

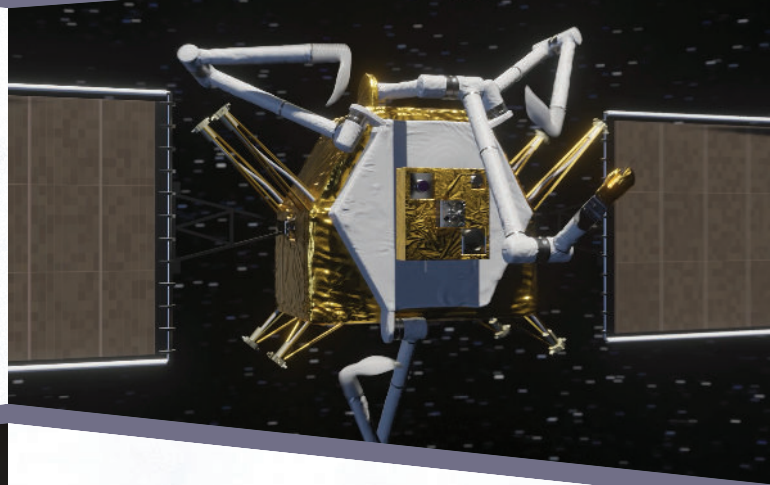


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BUILDING CONNECTION



FuseBlox™ is a modular, purpose built space connector for the world's on-orbit servicing, assembly, and manufacturing needs.



FLEXIBLE AND VERSATILE

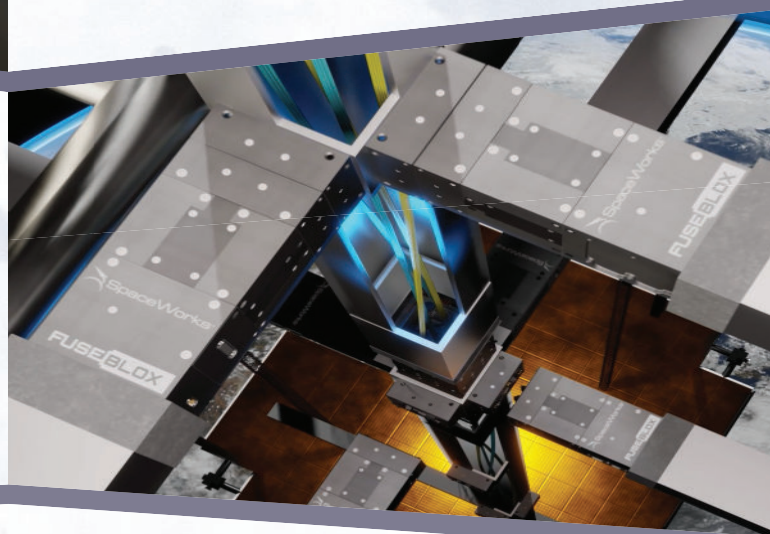


FuseBlox is androgynous, self-aligning, self-grappling, and tolerant to offsets in initial drift in two axes. It also features a redundant electrical interface for power and data transfer.

READY TO FLY



FuseBlox is ready to fly! We want FuseBlox to become an all-in-one, plug-and-play connector that space architects can rely on to build the space platforms of the future.



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