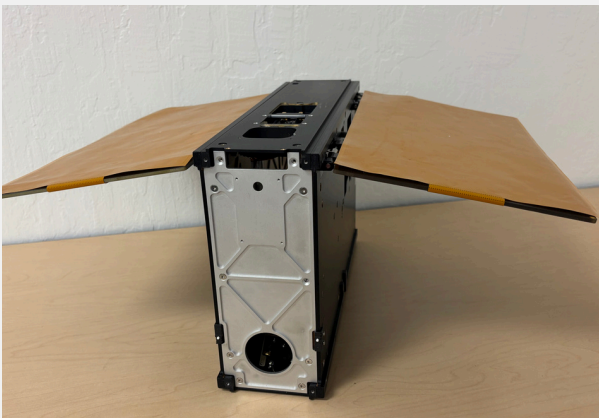
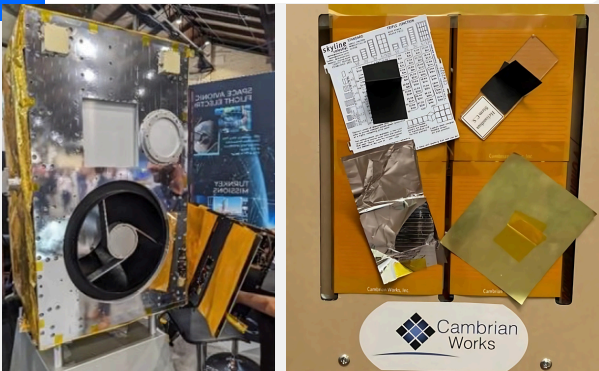


eTAP Universal Attachment

Attach to any space surface with Cambrian Works' electric Thin Attachment Pad (eTAP) subsystem.



Universal Compatibility

Adheres to virtually any space material--conductors, insulators, and dielectrics. No ferrous materials or surface preparation required.

Ultra-Low Power

Consumes 90% less power than electromagnetic alternatives.

Space-Ready Design

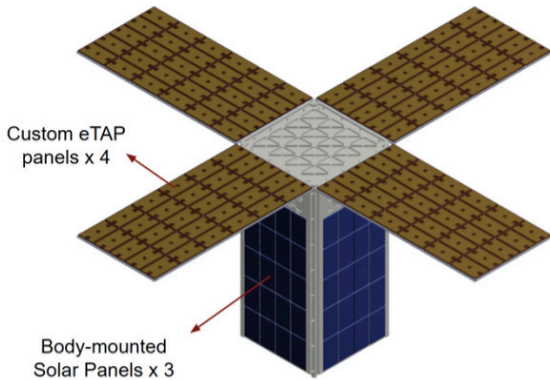
Built with space-rated materials, engineered for the harsh orbital environment.

Infinitely Reusable

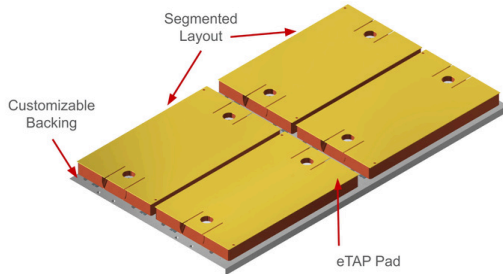
Zero degradation over 1,000 attachment/detachment test cycles. No residue, consumables, or mechanical wear.

Mission Applications

- Payload Augmentations
- Satellite Servicing
- Debris Removal
- Robotic Operations
- In-Space Assembly
- Refueling Missions
- Detumbling Operations



Example eTAP Assembly (Satellite to Satellite Attachment)



Attach and manipulate in ways that seem natural, without required preparation or training.

Attachment Force

>8N (scalable with multiple pads)

Response Time:

<100ms activation

Operating Power

<250mW at 5VDC

Pad Thickness

<0.1 mm ultra-thin profile

Platform Compatibility

1U CubeSat to ESPA-class

Control Interface

USB, RS-485, or direct I/O

Capture Velocity

Tested Up to 10 cm/s

Angular Capability

$\pm 5^\circ$ off-normal approach

Compatible Materials:

- Al Alloys
- Anodized Al
- Steel
- Titanium
- Glass & ITO
- Kapton
- MLI
- Carbon Fiber

And More!

Universal Space Attachment

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www.cambrianworks.com