



MODULARITY

WIRELESS SPACE

# ModiFi™

---

CUTTING CORDS IN SPACE™





## INDEX

---

1. Index
2. Breaking The Wired Barrier in Space
3. How Wireless Works
4. Why Wireless Works
5. What Wireless Looks Like
6. Where Wireless Works
7. Modifi Router Performance Specs
8. MOD™ Adapter Performance Specs
9. Performance Specs
10. Join The Waitlist



# MODULARITY

## BREAKING THE WIRED BARRIER IN SPACE

---

Today's wired components are the bottleneck to rapid reusability, manufacturing, and long-term sustainability in space.

Systems that rely on wires are slow to test and build, expensive to operate, and nearly impossible to repair.

ModiFi™ reduces cabling and wiring on your mission while providing flexibility to MOD™ components and sensors.

This all happens within your existing design and component interfaces.



## HOW WIRELESS WORKS

---

ModiFi™ enables spacecraft components to be modular and wirelessly interchangeable.

The ModiFi™ router creates a localized communication network that supports over 8,000 components with up to 2km range.

Small customizable interface dongles (MODs) are easily plugged in.

And MOD™ components use existing interface ports for wireless connectivity and real-time data transfer.





## WHY WIRELESS WORKS

---

10x More Robust, Reliable, and Secure Than  
Standard Wi-Fi

State-of-the-art Security And Encryption

High Throughput

2km Range

Low-size, Weight, and Power Hardware

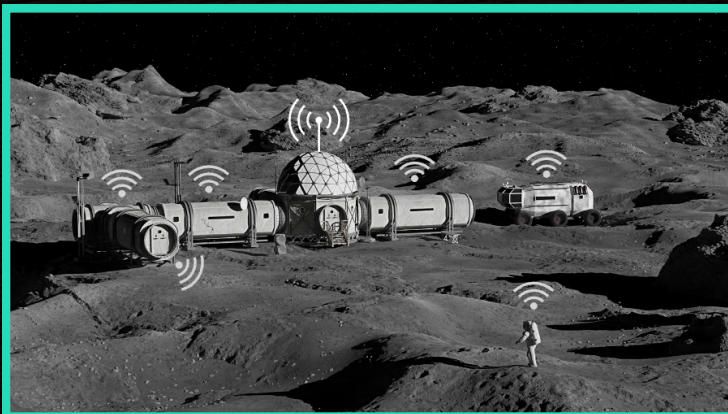
Sub-ghz Wi-fi Alliance Certified Protocol

Robust communications protocols eliminate 99%  
of the traditional connectivity issues

# MODULARITY

## WHAT WIRELESS LOOKS LIKE

---



CUTTING CORDS IN SPACE™





# MODULARITY

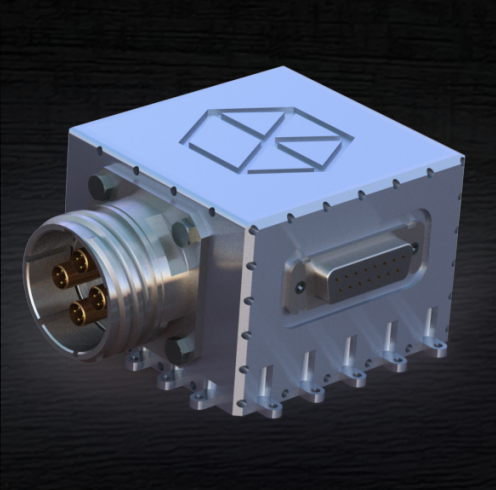
## WHERE WIRELESS WORKS

---

- In-Space Servicing, Assembly, and Manufacturing (ISAM)
- Space Stations, Platforms, and Infrastructure
- Satellite Manufacturing, Integrators, and Constellations
- Launch Vehicles and Deployers
- Testing, Integration, Simulation, SWARM, RPOD
- Lunar Habitats, Rovers, and Robotics
- Spacecraft Components, Sensors, Avionics, and Payloads

## MODIFI ROUTER PERFORMANCE SPECS

---

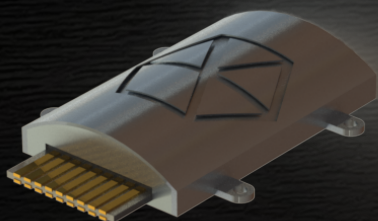
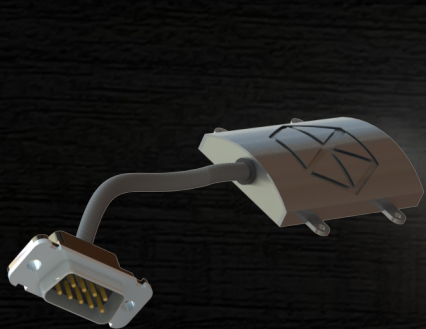


Mass	~ 281g
Dimensions	71 x 110 x 45 mm 2.80 x 4.33 x 1.78 in
Power	~ 2.4 mW
Supported Interfaces	10/100/1000BASE-T
# Of End Devices	8000+



## MOD™ ADAPTER PERFORMANCE SPECS

---



Mass	~ 29g
Dimensions	39 x 53 x 8.6 mm 1.54 x 2.09 x 0.34 in
Power	~ 0.77 mW Per Device
Supported Interfaces	RS-232 RS-422 RS-485 I2C SPI *

\*others by request

# MODULARITY

## PERFORMANCE SPECS

---

**Wireless Standard** 802.11ah (Wifi HaLow)

**Operational Frequency** 900-930 MHz

Bandwidth	Channel Sizes	Throughput Max
	[MHz]	[Mb/s]
1 Spatial Stream MIMO Capable	1	4.0
	2	8.67
	4	20.0
	8	43.3
	16	86.7

**Security Protocols** WPA2 // WPA3-SAE // WPA3-OWE





JOIN THE WAITLIST

\_\_\_\_\_

Go to this link and apply online.

[modularityspace.com/contact/](https://modularityspace.com/contact/)