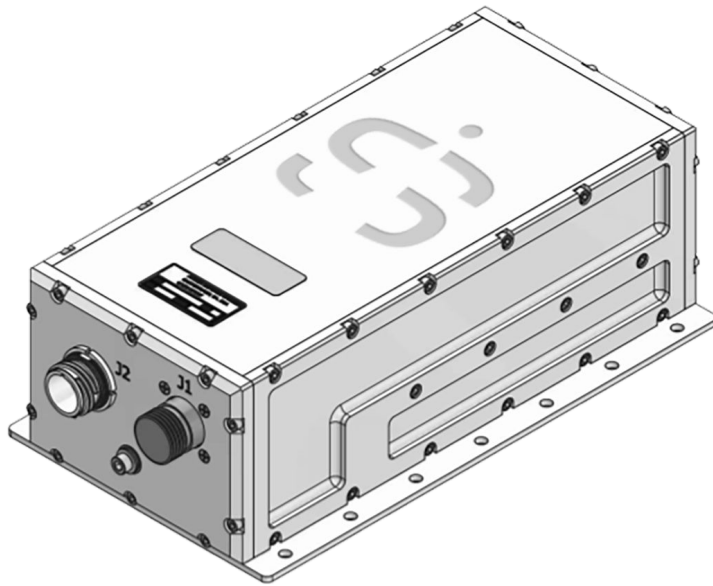




Solstar Space Co.

# WiFi-H™ Human Rated WiFi Node

The Wireless Access Point designed for crewed missions



## Product Highlights

The Solstar Space WiFi-H™ is a commercially available, human rated WiFi node built for use in crewed spacecraft. Designed with safety as the top priority, yet rugged enough to handle cabin pressure changes and exposure to lunar dust. The WiFi-H™ is also fully customizable to fit different mission criticality needs.

## Applications



Lunar rover & lander cabins



Government & commercial space stations



Sub-orbital & orbital tourism



Interaction with on orbit payloads & experiments

## Product Features

### Future Proof

Leverages next generation System on a Chip (SoC) processing technology

### Safety

Engineered to exceed NASA safety standards for crewed spaceflight

### Power

Efficient software defined radio (SDR) utilizes <69 watts of power

### Software

Supports all IEEE 802.11x standards with API based remote management

Contact Solstar Space for more information: [info@solstarspace.com](mailto:info@solstarspace.com)



# Technical Specifications

## WiFi-H™ Human Rated WiFi Node

Supported Wireless Standards	802.11n Wi-Fi CERTIFIED n 802.11ac Wi-Fi CERTIFIED ac 802.11r
Supported Security Protocols	WPA2 CERTIFIED WPA2 WPA3 CERTIFIED WPA3
Network Connectivity	1000BaseT 100BaseT Backward Compatible
Operating Frequency Bands	2.4 GHz Channels 1, 6, 11  5 GHz Channels:  20 MHz - 32, 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 106, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161  40 MHz - 34, 38, 46, 54, 62, 102, 110, 118, 126, 134, 142, 151, 159  80 MHz - 42, 58, 106, 122, 138, 155
Data Rates	Data rates in accordance with 802.11 standards:  Up to 1.73 Gbps (ac) Up to 450 Mbps (n) Multiple-Input and Multiple-Output (MIMO) capable
RF Output Power	2.4 GHz Band: > +27 dBm 5 GHz Band: > +20 dBm
RF Output Ports	2 coaxial output ports for 2.4 GHz band operation 2 coaxial output ports for 5 GHz band operation
Return Loss	2.4 GHz Band: > 17 dB 5 GHz Band: > 17 dB
Normal Load Operation	In-Band: < 2.0:1 Out-of-Band: > 40.0:1
Dimensions	< 3" H x < 6" W x 9" H
Mass	< 5 kg
DC Power Consumption	No RF Ports Active: < 2.0 W Any Individual RF Port: < 32.0 W Any Two RF Ports: < 47.0 W Any Three RF Ports: < 58.0 W Max (All RF Ports): < 69.0 W