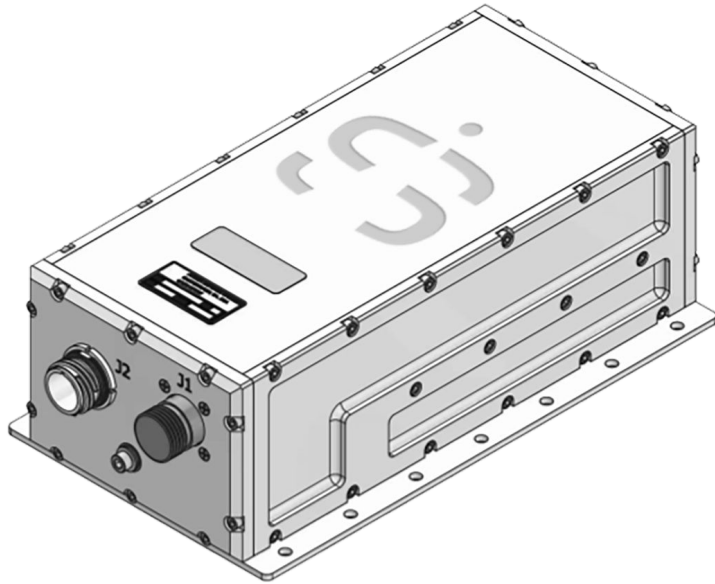




Solstar Space Co.

WiFi-TR™ Radiation Tolerant WiFi Node

The Wireless Access Point designed for space



Product Highlights

The Solstar Space WiFi-TR™ is a commercially available, radiation tolerant WiFi node designed for space travel. Powerful enough to offer seamless wireless communications throughout any spacecraft, yet consumes minimal volume, weight and power for minimal mission impact.

Applications



Lunar rovers & landers



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

Size & Weight

Component level radiation tolerance allows for minimal volume & mass footprint

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



Technical Specifications

WiFi-TR™ Radiation Tolerant 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