

NEWSPACE MARKET · COMPANY PROFILE



Redwire Corporation

United States · founded 2020 · redwirespace.com

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newspacemarket.com/companies/redwire-corporation/

as of 20 August 2026

Redwire Corporation

Redwire is an integrated aerospace and defense company that designs and manufactures advanced technologies for space and defense. The company provides advanced optical imaging and sun sensor technology, high-performance, low-mass solar arrays (ELSA), and Mako spacecraft platforms. They also deliver critical technologies and capabilities for autonomous aircraft and develop space infrastructure. Redwire is responsible for PROBA-3 spacecraft integration, testing, onboard computer, and the 3D Energetic Electron Spectrometer payload. They also designed, analyzed, manufactured, tested, and delivered 8 IROSA wings for the ISS, which are designed to produce over 160 kilowatts and boost station power by 20 to 30%. Additionally, Redwire builds the SabreSat platform for DARPA's Otter program and delivers Mako spacecraft platforms for the U.S. Space Force and Air Force Research Laboratory's Tetra-5 program. Their customers include NASA (Artemis II mission), Moog Inc. (for a National Security Program), PAE RAS (for Stalker UAS), the U.S. Space Force, and the Air Force Research Laboratory. Redwire's approximately 1,300 employees are located throughout Europe and the United States. They have flight heritage with their advanced optical imaging and sun sensor technology on the Orion spacecraft for NASA's Artemis II mission and delivered 8 IROSA wings for the ISS. Notable programs include Artemis II, PROBA-3, IROSA, Otter, and Tetra-5.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Assembly, Integration, and Test (AIT) for Spacecraft Redwire performs assembly, integration, and test (AIT) activities for spacecraft, including design, analysis, manufacturing, and delivery.	Design and Analysis Redwire provides design and analysis services for space hardware, ensuring optimal performance and reliability.
Digital Mission Planning and Architecture Assessment Redwire offers digital mission planning and architecture assessment using advanced simulation environments.	Launch Vehicle Structure Design and Development Redwire designs and develops launch vehicle structures and interfaces for ground-based rocket systems.
Payload Development Redwire develops technology demonstration payloads for various space missions.	Spacecraft Integration Redwire performs spacecraft integration, combining various components and systems into a functional spacecraft.
Spacecraft Testing Redwire conducts thorough testing of spacecraft and their components to ensure reliability and performance.	Team Assembly and Platform Building Redwire assembles teams and builds platforms for advanced technology demonstration programs.

Product catalogue



REDWIRE CORPORATION

Coarse Sun Sensor — Cosine Type

Miniature single-detector radiation-hardened coarse sun sensor (10 g) with approximate cosine field of view for solar array pointing and sun acquisition.

Field of View	Approximate cosine, conical symmetry
Number of Detectors	1
Mass	10 g
Dimensions	28 × 19 × 12 mm (1.10 × 0.74 × 0.47 in)
Peak Output	500–1,300 µA
Radiation Hardness	>100 krad (Si)
Export Control	ECCN 7A104

price on request



REDWIRE CORPORATION

Coarse Sun Sensor — Pyramid Type

Radiation-hardened 4-detector pyramid coarse sun sensor with 2π+ steradian FOV and ±1° accuracy at null, requiring no external power.

Field of View	2π steradian+
Accuracy at Null	±1°
Accuracy (Linear Range)	±5°
Measurement Axes	2
Detectors per Bracket	4 (pyramid); 2, 6, or 8 optional
Dimensions (with baffles)	89 × 89 × 43 mm (3.5 × 3.5 × 1.7 in)
Mass	0.13 kg (0.29 lb)

price on request



REDWIRE CORPORATION

LoadPath 3U CubeSat Mass Simulator

The LoadPath 3U CubeSat Mass Simulator is designed to simulate the mass and center of mass of a 3U CubeSat for ground fit checks, testing, and integration studies.

Design simulates	mass and center of mass of a 3U CubeSat
Mass range	3-5 kg
Suitability	ground fit checks, ground testing and integration studies
Nominal structural material	Delrin polymer
Material properties	low-outgassing materials acceptable in flight
Additional use	flight surrogate in the event the actual satellite is not available for launch
Delivery time	10-11 weeks from the date of order

[price on request](#)



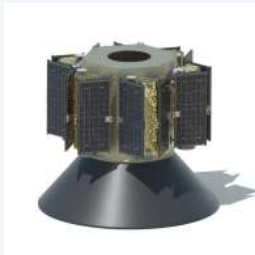
REDWIRE CORPORATION

LoadPath 6U CubeSat Mass Simulator

The LoadPath 6U CubeSat Mass Simulator is designed to simulate the mass and center of mass of a 6U CubeSat for ground testing, integration studies, and fit checks.

Design simulates	mass and center of mass of a 6U CubeSat
Mass range	6-10 kg
Suitability	ground fit checks, ground testing and integration studies
Nominal structural material	Delrin polymer
Material properties	constructed of low-outgassing materials acceptable in flight
Additional use	flight surrogate in the event the actual satellite is not available for launch
Delivery time	10-11 weeks from the date of order

[price on request](#)



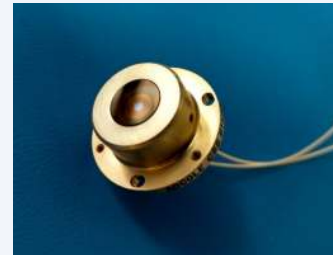
REDWIRE CORPORATION

LoFF Low-Shock Separation System

Low-shock frangible separation system delivering significantly reduced pyrotechnic shock versus traditional bolt-cutters, with fully redundant initiation for launch vehicle stage s

Type	Low-shock frangible separation system
Shock Output	Significantly reduced vs. traditional pyrotechnic systems
Redundancy	Fully redundant initiation
Application	Launch vehicle / spacecraft separation
Scalability	Multiple payload mass classes

[price on request](#)



REDWIRE CORPORATION

Redwire Coarse Sun Sensor – Cosine Type

Small, lightweight single-detector sun sensor with cosine-symmetric field of view for solar-array pointing and sun acquisition.

Configuration	Single detector
Field of view	Approximate cosine, conical symmetry
Mass	10 g nominal (0.353 oz)
Dimensions (flange x body x height)	1.10 x 0.74 x 0.47 in (2.8 x 1.9 x 1.2 cm)
Input power	None required
Peak output	500-1300 uA
Baffles	Optional, custom FOV restriction

[price on request](#)

[datasheet](#)



REDWIRE CORPORATION

Redwire Coarse Sun Sensor – Pyramid

2-axis, 4-detector pyramid-configuration coarse sun sensor for solar array pointing and sun acquisition.

Configuration	2-axis, pyramid bracket
Number of detectors	4 per bracket (2, 6, 8 also available)
Field of view	2-pi steradian plus
Accuracy	+/-1 deg at null (typical), +/-5 deg over linear range
Mounting base dimensions	2.3 x 2.3 in (58 x 58 mm)
Dimensions with baffles	3.5 x 3.5 x 1.7 in (89 x 89 x 43 mm)
Mass	0.29 lb (0.13 kg) nominal

[price on request](#) [datasheet](#)



REDWIRE CORPORATION

Redwire CubeCone Payload Adapter

Transitional conical ring adapter from Redwire's payload-adapter line that can also accommodate secondary payloads.

Configuration	Transitional ring adapter
Function	Can also accommodate secondary payloads
Product family	Redwire Payload Adapters (with XPOD, LoFF, CubeStack)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

[price on request](#)



REDWIRE CORPORATION

Redwire CubeStack Payload Adapter

ESPA-class ring adapter from Redwire's payload-adapter line that can hold up to eight 3U CubeSat dispensers.

Configuration	ESPA-class ring adapter
Capacity	Up to 8 3U CubeSat dispensers
Product family	Redwire Payload Adapters (with XPOD, LoFF, CubeCone)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

[price on request](#)



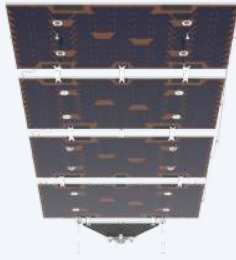
REDWIRE CORPORATION

Redwire FALCCON High Gain Broadband Space Antenna

Frequency Agile L-Band Core Common Node antenna delivering high-gain, broadband tactical comms, telemetry, and GNSS performance.

Peak gain (high-gain config)	21 dBic
Peak gain (intermediate-gain config)	18.5 dBic
Dimensions (high-gain)	80 x 80 x 38 cm
Dimensions (intermediate-gain)	60 x 60 x 38 cm
Mass	<10 kg (excludes CFE gimbal)
Bandwidth	>24% of band
Pointing	Body-pointed or 2-axis gimbal (gimbal not included)

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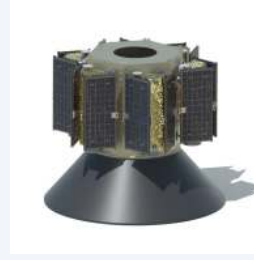
REDWIRE CORPORATION

Redwire HiPASS – High-Power Rigid Array Solution for SmallSats

SADA-compatible rigid solar array wing built for ESPA-class electric propulsion smallsat missions, using metallic tape-spring hinges.

Deployed wing dimensions	54 x 144 x 8 in (137 x 365 x 20 cm)
Stowed wing dimensions	30 x 54 x 7.5 in (76 x 137 x 19 cm)
Mass (1 kW point design)	17 kg
Electrical arrangement (1 kW point design)	19s20p per wing, Spectrolab XTE 76.88 cm ² cells
Hinge type	Metallic tape-spring hinges
Drive compatibility	SADA-compatible
Panel material	Low-cost graphite face-sheet panels

[price on request](#) [datasheet](#)



REDWIRE CORPORATION

Redwire LoFF Rideshare Adapter

Custom Redwire rideshare adapter that hosted 48 3U CubeSats on a single launch for the Spaceflight SSO-A mission.

Configuration	Custom rideshare adapter
Capacity	Hosted 48 3U CubeSats (Spaceflight SSO-A mission)
Product family	Redwire Payload Adapters (with XP0D, CubeCone, CubeStack)
Mission heritage	Spaceflight SSO-A

[price on request](#)



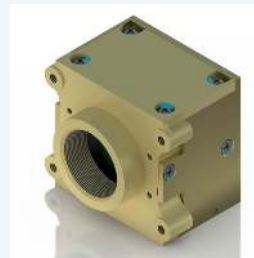
REDWIRE CORPORATION

Redwire Rigid Panel Solar Array Systems

Scalable rigid honeycomb-panel solar arrays from 50 W to over 15 kW per wing for LEO, MEO, GEO, and deep-space missions.

Power generation	50 W to >15 kW per wing
Specific mass	0.02-0.15 kg/W
Panel dimensions	~1 m x 1 m and larger, scaled to power
Construction	Composite facesheet, aluminum honeycomb, titanium inserts
Photovoltaic suppliers	Spectrolab, SolAero, Azur, Mpower
Hinge damping options	Viscous, eddy-current, or un-damped
Special applications	ESD, electrostatic, and magnetic cleanliness compatible

[price on request](#)



REDWIRE CORPORATION

Redwire SpectraCAM High Resolution Flight Camera

GigE Vision LEO flight camera for docking, navigation, inspection, and situational awareness, with 5MP CMOS sensor.

Dimensions (boresight config)	50 x 50 x 47 mm
Mass	<180 g without optics
Power	5 VDC @ 400 mA (full resolution, 10 fps)
Operating temperature	-30C to +55C (mounting plate)
Shutter type	Rolling global reset
Resolution	2592 x 1944, 5MP monochrome (color available)
Image depth	12-bit

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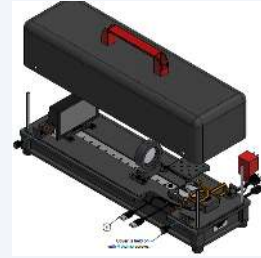
REDWIRE CORPORATION

Redwire SpectraTRAC Star Tracker

Compact, autonomous Lost-in-Space star tracker for CubeSat, NanoSat, and Spaceflight missions.

Accuracy (cross-axis / boresight)	<6 arcsec / 27 arcsec
Update rate	4 Hz
Max tracking rate	>2.0 deg/sec
Time to solution	230 ms LIS, 170 ms track (typical)
Star catalog	1889 stars (6th visual magnitude)
Lens	22 mm aperture, F1.2 BK7 glass
AFOV	19 deg x 14 deg

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REDWIRE CORPORATION

Redwire Star Field Simulator

Hardware-in-the-loop star field simulator providing as-you-fly ground test operation of Redwire star trackers.

Dimensions (W x L x H)	8 x 24 x 7 in (200 x 610 x 180 mm)
Mass	11 lbs (5 kg)
Included equipment	Fixture, cabling, power supply, star field driver, laptop, SFS software suite
Operating modes	User-defined flight segments; externally driven closed loop; prerecorded night-sky data
Compatible star trackers	Model 82920 Star Tracker, Model 83190 SpectraTRAC
User-supplied equipment	Windows 10 PC running Space Sextant, star tracker telemetry interface
Software heritage	Based on software originally developed at JPL

[price on request](#) [datasheet](#)



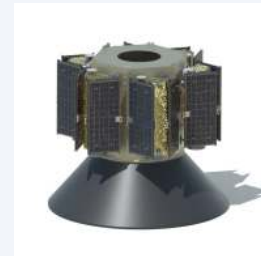
REDWIRE CORPORATION

Redwire Sun Sensor Stimulator System

Ground test stimulator system using infrared LEDs to optically verify sun sensor functionality, sun angles, and flight harnesses.

Stimulus type	Infrared LED illumination per sun sensor cell
Control panel power	120-240 VAC, 50/60 Hz
Effective operating temperature	-30C to +60C
Vacuum compatibility	Yes, vacuum-chamber compatible
Test functions	Sun angle, sun presence, spin pulse, aliveness, harness verification

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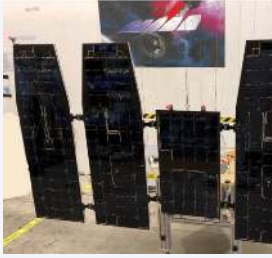
REDWIRE CORPORATION

Redwire XPOD CubeSat Deployer

Custom Redwire payload adapter configuration designed to host three XPOD CubeSat dispensers on a single rideshare interface.

Configuration	Custom adapter hosting 3 XPOD CubeSat dispensers
Product family	Redwire Payload Adapters (with LoFF, CubeCone, CubeStack)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

[price on request](#)



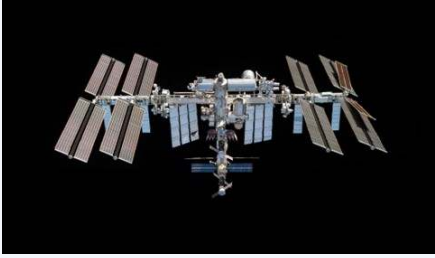
REDWIRE CORPORATION

Rigid Panel Solar Array

Heritage-proven deployable rigid panel solar arrays using high-efficiency triple-junction cells for LEO, MEO, and GEO spacecraft across commercial, civil, and defense programs.

Array Type	Rigid panel, deployable
Cell Technology	High-efficiency triple-junction
Orbit Applicability	LEO, MEO, GEO
Deployment	Spring-actuated hinged panel stack
Power Range	Scalable; mission-specific
Heritage	Multiple commercial, civil, and defense programs

price on request



REDWIRE CORPORATION

Roll Out Solar Array (ROSA)

Redwire's Roll Out Solar Array (ROSA) is a scalable, high-power solar solution featuring a unique rollable stowage configuration for compact volume and mass optimization.

Configuration	Diamond
Deployed Length (m)	8.6
Mass (kg)	36
BOL Power (kW)	3.3
Stowed Width (m)	2.32
Configuration	Opal
Deployed Length (m)	12.6

price on request

[datasheet](#)



REDWIRE CORPORATION

ROSA Roll-Out Solar Array

Redwire Corporation is a US space infrastructure and manufacturing company formed from the merger of multiple space companies including DSS (Deployable Space Systems, the inventor

price on request

Contact Redwire Corporation

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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