



Q-Rad is a high-performance deployable radiator assembly that provides additional heat rejection and can also serve as a dedicated cold-sink.

Leveraging ultra-high thermal conductivity solid-state materials, Q-Rad is a compact, lightweight, modular, and passive thermal control solution for a wide-range of demanding needs.







APPLICATIONS H

- + Low Earth Orbit (LEO) missions
- + Deep Space Missions
- + Planetary Missions



V1 MAR 2021

Deployable Radiator Q-Rad





PARAMETERS H

Areal Density 3.5 to 4.9 kg/m² Hinge Engineering Hinge thermally isolated from radiator assembly

Hinge Conductance 1 W/K Technology Readiness Level (TRL) TRL 5 currently

Deployment Angles 0° to 180°



MODULAR DESIGN

- + Deployment angles can be easily tailored to meet customer needs.
- + The Q-Rad mounting panel, bolt pattern, and radiator size can be increased or decreased to fit specific heat rejection or thermal biasing requirements.
- + The flexible hinge can be designed to either stow inside or along the outside of the hinge in the stowed configuration.



MARKETS SERVED H

+ Spaceflight applications

OTHER FEATURES ⊢

- + Deployable hinge mechanism may be sold separately.
- + Burn-wire hold and release mechanism may be sold separately.

For more information about our space capabilities contact:

REDWIRE SPACE SALES



HERITAGE

Redwire is a new leader in mission critical space solutions and high reliability components for the next generation space economy. With decades of flight heritage combined with the agile and innovative culture of a commercial space platform, Redwire is uniquely positioned to assist its customers in solving the complex challenges of future space missions. For more information, please visit www.redwirespace.com.



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