Deployable Radiator
Q-Rad

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.
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PARAMETERS

Areal Density 3.5 to 4.9 kg/m²

Hinge Conductance 1 W/K

Deployment Angles 0° to 180°

Hinge Engineering
Hinge thermally isolated from radiator assembly

Technology Readiness Level (TRL)
TRL 5 currently

OTHER FEATURES

+ 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

+ Spaceflight applications

MODULAR DESIGN

+ 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

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