

PRODUCT DATASHEET

Singularia

High-capacity radiation-tolerant mass-memory tile for reliable high-throughput data storage in harsh environments.

Hardware profile

Family	Roadmap tiles
Category	In-development mass-memory tile
Status	In development
Form factor	Tile/module (size not stated)
Radiation positioning	Radiation-tolerant; architecture optimized for fault tolerance and data integrity
Primary target	Payload/sensor/AI data buffering and retention, onboard recording, AI dataset caching, delayed downlink, autonomous mission ops
Source pages	7

Key hardware

Mass-memory tile using space-qualified memory technologies, error detection/correction, and modular Space Tile interface

Tile characteristics

Attribute	Value	Source
Characteristic	Radiation-tolerant mass-memory tile	7
Characteristic	Reliable high-throughput data storage	7
Characteristic	Optimized for fault tolerance	7
Characteristic	Optimized for data integrity	7
Characteristic	Optimized for deterministic access patterns	7
Characteristic	Space-qualified memory technologies	7
Characteristic	Robust error detection and correction	7
Characteristic	Modular interface compatible with the Space Tile ecosystem	7

Applications

Target workload

Use case	Source
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	7
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Generated from the structured Setanta product catalog. Detailed electrical and mechanical specifications are available through direct mission review where applicable.