

PRODUCT DATASHEET

Polaria

High-performance Microchip PolarFire® FPGA-based module for demanding space computing and signal-processing tasks.

Hardware profile

Family	Roadmap tiles
Category	In-development FPGA tile/module
Status	In development
Form factor	Tile/module (size not stated)
Radiation positioning	Radiation-tolerant, low-power, enhanced reliability, space-ready performance characteristics
Primary target	Onboard avionics, payload control, real-time data handling, signal processing
Source pages	7

Key hardware

Microchip PolarFire® FPGA-based module

Tile characteristics

Attribute	Value	Source
Characteristic	Microchip PolarFire® FPGA-based module	7
Characteristic	Radiation-tolerant low-power FPGA logic	7
Characteristic	Expanded logic density	7
Characteristic	High-speed I/O	7
Characteristic	Enhanced reliability	7
Characteristic	Non-volatile architecture and space-ready performance characteristics	7

Applications

Target workload

Use case	Source
	7
	7
	7
	7

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