

# VORAGO Technologies

## Product Selector Guide



### Company Information

VORAGO Technologies is a privately held, fabless semiconductor company based in Austin, TX. VORAGO is a provider of radiation-hardened and extreme temperature hardened IC components for the Hi-rel marketplace. VORAGO designs and develops high density SRAMs and MCUs using patented HARDSLIL® technology to simultaneously provide superior radiation and temperature endurance performance. VORAGO also offers HARDSLIL® technology to industry partners through licensing.

### HS512K16 Extreme Temperature or Rad-Hard 8Mb Dual Port SRAMs

Description	Part number	Environment	Temperature Range	Package
High-temperature Synchronous Dual-port SRAM	HS512K16-CQ128A103E	Extreme temperature	-55° to 200°C	Ceramic 128 QFP
Radiation-hardened Synchronous Dual-port SRAM	HS512K16-CQ128A1F0E	Radiation-hardened	-55° to 125°C	Ceramic 128 QFP
High-temperature Synchronous Dual-port SRAM	HS512K16-DA103E	Extreme temperature	-55° to 200°C	Die
Radiation-hardened Synchronous Dual-port SRAM	HS512K16-DA1F0E	Radiation hardened	-55° to 125°C	Die

### SMV512K32 Rad-Hard 16Mb Asynchronous SRAM for Multi-Purpose Applications

Description	Part number	Environment	Temperature Range	Package
Radiation-hardened 16Mb Asynchronous SRAM	SMV512K32-DB1F0E	Rad-hard 300K rad (Si)	-55 to 125°C	Die (in wafer form)

### REB1 Microcontroller Development Kit

Description	Part number	Features
Development Board	REB1-VA10820	Supports VA10820 Radiation-hardened microcontroller
Development Board	REB1-VA10800	Supports VA10800 Extreme temperature microcontroller

For more information, contact below or visit our web site at [www.voragotech.com](http://www.voragotech.com)  
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## VA10800 Extreme Temperature ARM® Cortex®-M0 Microcontrollers

Description	Part number	Environment	Temperature Range	Package
Extreme temperature microcontroller	VA10800-D000003PCA	Extreme temperature	-55° to 200°C	Die
Extreme temperature microcontroller	VA10800-CQ12803ECA	Extreme temperature	-55° to 200°C	Ceramic 128 QFP
Extreme temperature microcontroller	VA10800-PQ12803PCA	Extreme temperature	-55° to 200°C	Plastic 128 QFP

## VA10820 Rad-Hard ARM® Cortex®-M0 Microcontrollers

Description	Part number	Environment	Temperature Range	Package
Radiation-hardened microcontroller	VA10820-D0000F0PCA	Rad-hard 300K rad (Si)	-55 to 125°C	Die
Radiation-hardened microcontroller	VA10820-CQ128F0ECA	Rad-hard 300K rad (Si)	-55 to 125°C	Ceramic 128 QFP
Radiation-hardened microcontroller	VA10820-PQ128F0PCA	Rad-hard 300K rad (Si)	-55 to 125°C	Plastic 128 QFP

## PA32KAS Extreme Temperature or Rad-Hard ARM® Cortex®-M0 Microcontrollers

Description	Part number	Environment	Temperature Range	Package
Radiation-hardened microcontroller	PA32KAS-D0000F0EAA	Rad-hard 300K rad (Si)	-55 to 125°C	Die
Radiation-hardened microcontroller	PA32KAS-CQ188F0EAA	Rad-hard 300K rad (Si)	-55 to 125°C	Ceramic 188 QFP
Extreme temperature microcontroller	PA32KAS-D000003EAA	Extreme temperature	-55° to 200°C	Die
Extreme temperature microcontroller	PA32KAS-CQ18802EAA	Extreme temperature	-55° to 175°C	Ceramic 188 CQFP (gold balls)
Extreme temperature microcontroller	PA32KAS-CQ18803EAA	Extreme temperature	-55° to 200°C	Ceramic 188 QFP (aluminium balls)

For more information, contact below or visit our web site at [www.voragotech.com](http://www.voragotech.com)  
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