

# Memory solutions for aerospace and defense

## Pairing guide for Microchip FPGAs

### Microsemi FPGA pairing guide for Infineon's space memories

Microsemi FPGA	NOR flash density	Rad tol NOR flash	
		Part number	Description
Microchip RTG4	256Mb	CYRS16B256-133FZMB CYPT16B256-133FZMB	256M Serial NOR Flash QSPI 256M Serial NOR Flash QSPI
	512Mb	CYRS16B512-133FZMB CYPT16B512-133FZMB	512M Serial NOR Flash Dual QSPI 512M Serial NOR Flash Dual QSPI

Microsemi FPGA	F-RAM density	F-RAM <sup>1</sup>	
		Part number	Description
Microchip RTG4	2Mb	5962R1821601VXC	2M FRAM Serial DLAM QML-V
	2Mb	CYPT15B102Q-GGMB	2M FRAM Serial Prototype

Microsemi FPGA	Sync SRAM density	QDR-II+	
		Part number	Description
Microchip RTG4	72Mb	5962F1120101VXAv CYPT1542AV18-250GCMB 5962F1120102VXA CYPT1543AV18-250GCMB 5962F1120201VXA CYPT1544AV18-250GCMB 5962F1120202VXA CYPT1545AV18-250GCMB	72M QDR II+ x18 BURST of 2 DLAM QML V 72M QDR II+ x18 BURST of 2 Prototype 72M QDR II+ x18 BURST of 4 DLAM QML V 72M QDR II+ x18 BURST of 4 Prototype 72M QDR II+ x36 BURST of 2 DLAM QML V 72M QDR II+ x36 BURST of 2 Prototype 72M QDR II+ x36 BURST of 4 DLAM QML V 72M QDR II+ x36 BURST of 4 Prototype
	144Mb	5962R1821401VXF CYPT2642KV18-250GCMB 5962R1821402VXF CYPT2643KV18-250GCMB 5962R1821501VXF CYPT2644KV18-250GCMB 5962R1821502VXF CYPT2645KV18-250GCMB 5962R1821403VXF CYPT1642KV18-250GCMB 5962R1821404VXF CYPT1643KV18-250GCMB 5962R1821503VXF CYPT1644KV18-250GCMB 5962R1821504VXF CYPT1645KV18-250GCMB	144M QDR II+ x18 BURST of 2 DLAM QML V 144M QDR II+ x18 BURST of 2 Prototype 144M QDR II+ x18 BURST of 4 DLAM QML V 144M QDR II+ x18 BURST of 4 Prototype 144M QDR II+ x36 BURST of 2 DLAM QML V 144M QDR II+ x36 BURST of 2 Prototype 144M QDR II+ x36 BURST of 4 DLAM QML V 144M QDR II+ x36 BURST of 4 Prototype 144M QDR II+ x18 BURST of 2 DLAM QML V w/o ODT 144M QDR II+ x18 BURST of 2 Prototype w/o ODT 144M QDR II+ x18 BURST of 4 DLAM QML V w/o ODT 144M QDR II+ x18 BURST of 4 Prototype w/o ODT 144M QDR II+ x36 BURST of 2 DLAM QML V w/o ODT 144M QDR II+ x36 BURST of 2 Prototype w/o ODT 144M QDR II+ x36 BURST of 4 DLAM QML V w/o ODT 144M QDR II+ x36 BURST of 4 Prototype w/o ODT

## PRODUCT BRIEF

### Synchronous SRAM memory supported by Microchip FPGA

Infineon provides a Synchronous SRAM memory controller that can be integrated as soft IP in supported Microchip FPGAs. Please request access to your customized SRAM memory controller RTL IP through [MS\\_Ecosystem@infineon.com](mailto:MS_Ecosystem@infineon.com)



[www.infineon.com](http://www.infineon.com)

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