

Features

High-Efficiency Error Correction

- Advanced Hardware BCH Error Correcting Code (ECC) Engine
- StaticDataRefresh™ and EarlyRetirement™ technologies ensure the data reliability

Advanced Global Wear Leveling to Enhance Reliability

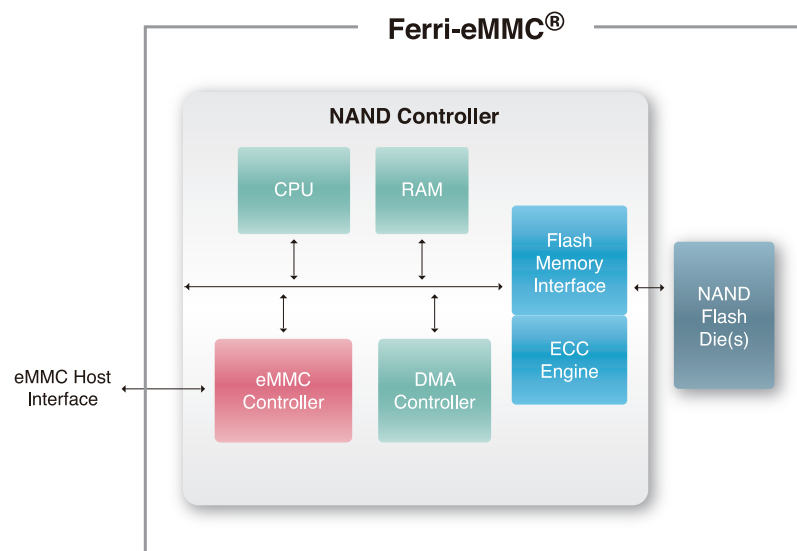
- Even distribution of program / erase cycles across all NAND flash chips
- Maximizes the lifespan with low Write Amplification Index (WAI)

Robust Data Protection

- Advanced system level protection against unstable power
- Software / hardware write protect option
- Multiple user data security zones
- Software / hardware secure erase function
- PowerShield and DataPhoenix technologies prevent data corruption in case of sudden power lost

Automotive IVI compliance to the AEC-Q100 requirements

Block Diagram



Part Number	SM661	SM667	SM662	SM668
Host Interface	eMMC 4.5	eMMC 4.5	eMMC 5.0	eMMC 5.0
NAND	MLC	SLCmode™	MLC	SLCmode™
Density	4/8GB	2/4GB	8-64GB	4-32GB
Dimensions	14 x 18 x 1.4(mm)	14 x 18 x 1.4(mm)	14 x 18 x 1.4(mm)	14 x 18 x 1.4(mm)
	11.5 x 13 x 1.2(mm)	11.5 x 13 x 1.2(mm)	11.5 x 13 x 1.2(mm)	11.5 x 13 x 1.2(mm)
			12 x 16 x 1.2(mm)	12 x 16 x 1.2(mm)
Package	100 / 153-ball BGA	100 / 153-ball BGA	8-32GB: 100 / 153-ball BGA	4-16GB: 100 / 153-ball BGA
			64GB: 169-ball BGA	32GB: 169-ball BGA
Temperature Support	Commercial Temp (-25°C to +85°C)	Commercial Temp (-25°C to +85°C)	Commercial Temp (-25°C to +85°C)	Commercial Temp (-25°C to +85°C)
	Industrial Temp (-40°C to +85°C)	Industrial Temp (-40°C to +85°C)	Industrial Temp (-40°C to +85°C)	Industrial Temp (-40°C to +85°C)
Green Product	RoHs compliant / Halogen free	RoHs compliant / Halogen free	RoHs compliant / Halogen free	RoHs compliant / Halogen free

For more information about Ferri-eMMC®, please go to www.siliconmotion.com or send e-mail to ferri@siliconmotion.com