

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

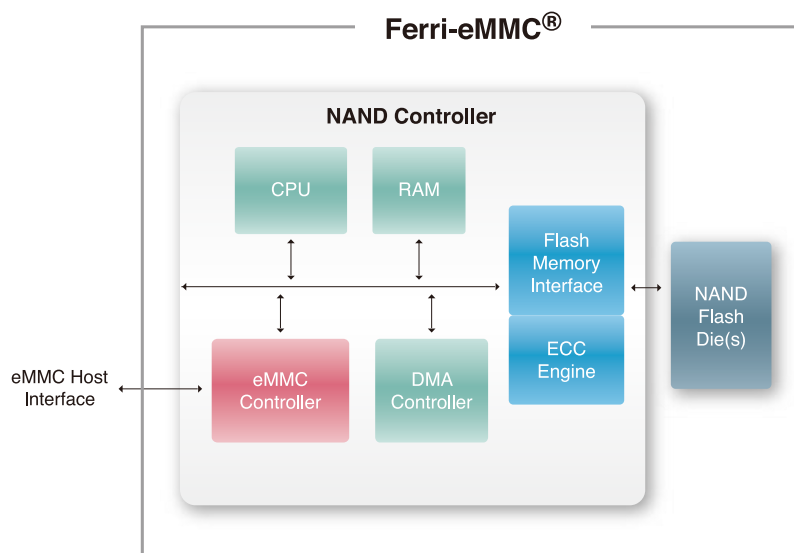
- Even distribution of program / erase cycles across all NAND flash chips
- Maximizes the lifespan with low Write Amplification Index (WAI)

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
Host Interface	eMMC 4.5	eMMC 4.5	eMMC 5.0 / eMMC 5.1
NAND	MLC	SLCmode™	eMMC5.0: MLC / SLCmode™ eMMC5.1: TLC / MLCmode™ / SLCmode™
Density	4/8GB	2/4GB	eMMC5.0: 8~64GB MLC eMMC5.1: 16~256GB TLC
Dimensions	14 x 18 x 1.4(mm) 11.5 x 13 x 1.2(mm)	14 x 18 x 1.4(mm) 11.5 x 13 x 1.2(mm)	14 x 18 x 1.4(mm) 11.5 x 13 x 1.2(mm)
Package	100 / 153-ball BGA	100 / 153-ball BGA	100 / 153-ball BGA
Temperature Support	Commercial Temp (-25°C to +85°C) Industrial Temp (-40°C to +85°C) Automotive Grade (-40°C to +85 / +105°C)	Commercial Temp (-25°C to +85°C) Industrial Temp (-40°C to +85°C) Automotive Grade (-40°C to +85 / +105°C)	Commercial Temp (-25°C to +85°C) Industrial Temp (-40°C to +85°C) Automotive Grade (-40°C to +85 / +105°C)
Green Product	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