

Compact eMMC



Compact eMMC Product Functions

- High-reliability chip
- eMMC 5.1 protocol
- Small and thin. More space
- Global wear balance management
- Intelligent low power consumption algorithm
- Smart health monitoring
- FBA data acceleration technology
- Full-cycle bad block management
- Emergency power failure protection
- FFU upgrade support

Application Scope



Smart watches



smart bands



smart cameras



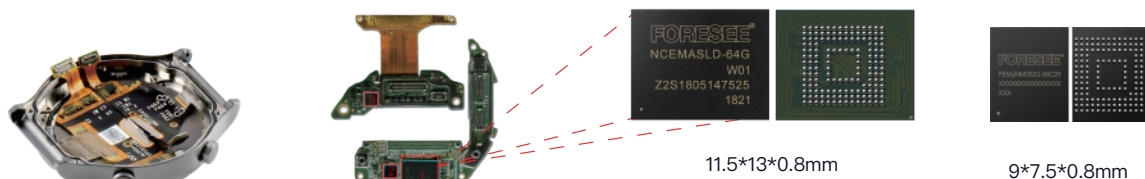
and smart earphones

Compact eMMC Product Features

- Razor-thin at 0.8mm

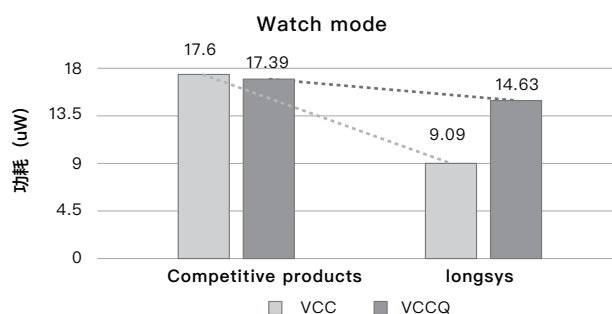
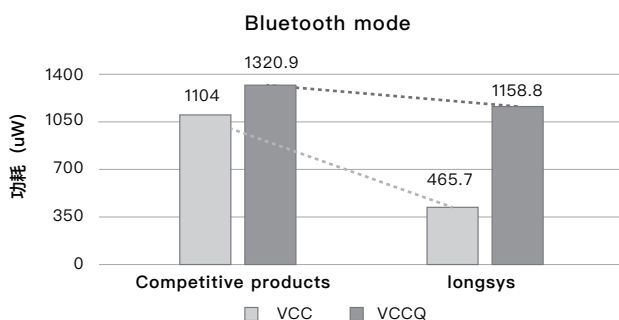


- Saves up to 40% to 50% more PCB space for wearable devices compared to the standard eMMC size of 11.5x13mm



Intelligent low power consumption algorithm

- Enters sleep mode quickly, reducing standby time
- Intelligent underclocking, reducing peak power consumption



Compact eMMC Line-up

	4GB	32GB
Part Number	FEMKNN004G-58A42	FEMDNM032G-58C29
Speed mode	HS400	HS400
Package	9*7.5*0.8mm	9*10*0.8mm
Nand Flash	2D TLC	3D TLC
Seq. W/R①	Up to 55/65 MB/S	Up to 90/90 MB/S
Operation Temp	-25°C ~ +85°C	-25°C ~ +85°C
Storage Temp	-40°C ~ +85°C	-40°C ~ +85°C
Operating voltage	VCC : 2.7 ~ 3.6V VCCQ : 1.7 ~ 1.95V	VCC : 2.7 ~ 3.6V VCCQ : 1.7 ~ 1.95V
Endurance②	3000 P/E	1000 P/E
Data Retention	100% P/E:1 years	100% P/E:1 years

① Test Condition: @25°C, Device level test without file system overhead, Seq. Chunk size 512KB, Cache on.

② WAI=1