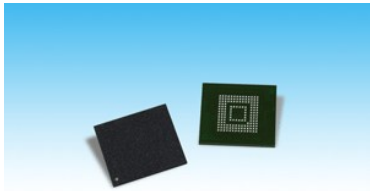
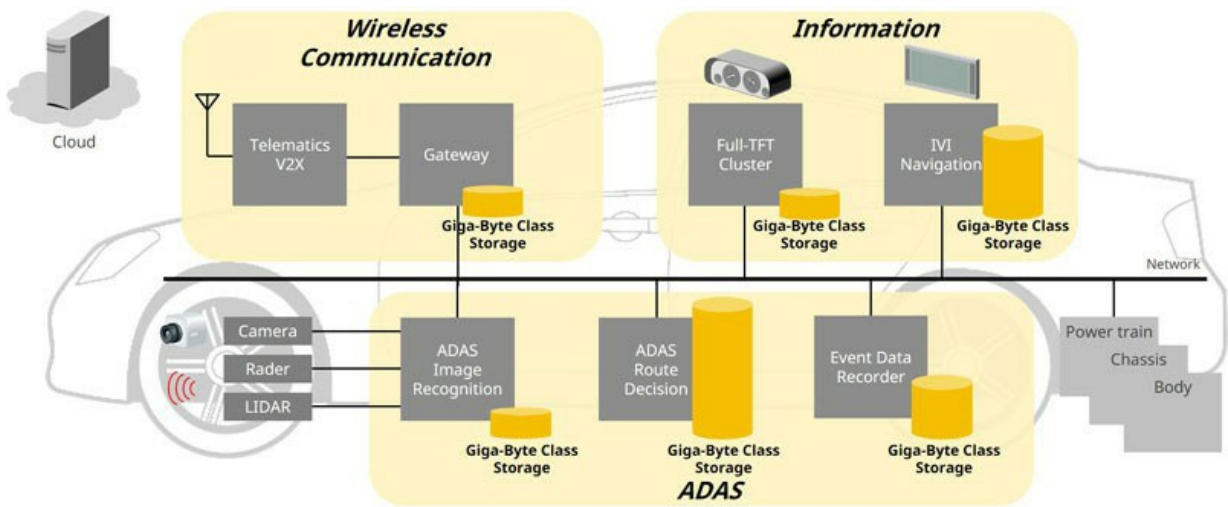


# e-MMC/UFS for Automotive Information & Entertainment Systems



- De facto standard of embedded storage
- Optimized for Information & Entertainment Systems, ADAS etc.

Capacity	e-MMC	UFS
8GB	✓	-
16GB	✓	✓
32GB	✓	✓
64GB	✓	✓
128GB	-	✓
256GB	-	✓
512GB	-	✓

## e-MMC

## AEC-Q100 Grade2

Capacity	Part Number	e-MMC version	Max Data Rate (MB/s)	Supply Voltage		Operating Temperature (°C)	Package Size (mm)
				V <sub>CC</sub> [V]	V <sub>CCQ</sub> [V]		
8GB	THGBMJG6C1LBAB7	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-40 to 105 <sup>(1)</sup>	11.5x13.0x1.0
16GB	THGBMJG7C2LBAB8						11.5x13.0x1.2
32GB	THGBMJG8C4LBAB8						
64GB	THGBMJG9C8LBAB8						

## UFS

### AEC-Q100 Grade2

Capacity	Part Number	UFS version	Max Data Rate (MB/s)	Supply Voltage			Operating Temperature (°C)	Package Size (mm)
				V <sub>CC</sub> (V)	V <sub>CCQ</sub> (V)	V <sub>CCQ2</sub> (V)		
16GB	THGAF9G7L1LBAB7 <sup>(2)</sup>	2.1	1166	2.7 to 3.6	- <sup>(4)</sup>	1.70 to 1.95	-40 to 105 <sup>(1)</sup>	11.5x13.0x1.0
32GB	THGAFBG8T13BAB7							
	THGAFEG8T13BAB7 <sup>(2)</sup>							
64GB	THGAFBG9T23BAB8							
	THGAFEG9T23BAB8 <sup>(2)</sup>							
128GB	THGAFBT0T43BAB8							
	THGAFET0T43BAB8 <sup>(2)</sup>							
256GB	THGAFBT1T83BAB5						11.5x13.0x1.2	
	THGAFET1T83BAB5 <sup>(2)</sup>							
512GB	THGAFBT2T83BABI <sup>(3)</sup>							14.0x18.0x1.2

Note (1): T<sub>c</sub>=115°C max.

Note (2) : Maximum pre-load capacity is 100% of the user area capacity.


Note (3) : New product. Sample specifications may differ from mass production parts.

Note (4) : This product supports dual-supply operation at  $V_{CC}$  and  $V_{CCQ2}$ .  $V_{CCQ}$  need not be supplied.

## Links

### MLC/NAND Flash Memory

- [e-MMC](#)
- [UFS](#)
- [e-MMC/UFS for Automotive Information & Entertainment Systems](#)

Icon definitions:  Open in new window.  Open PDF in new window.

[Business Products](#) > [Memory](#) > [NAND Flash Memories with an Integrated Controller](#) > [e-MMC/UFS for Automotive Information & Entertainment Systems](#)

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