kingston.com/embedded

Automotive-Temp DDR3/3L DRAM

The perfect memory for extended higher-temperature embedded applications

Kingston Automotive-Temp discrete DRAM is designed to meet the needs of embedded applications that require an extended operating temperature range. It offers a low-voltage option for lower power consumption. The operating temperature range of the device is -40℃ ~ +105℃, which makes it an ideal memory solution for harsh environments, outdoor signage, surveillance, factory automation, transportation, servers, touchscreen kiosks and other embedded applications subject to extreme environmental conditions.

#KingstonIsWithYou

MARKET SEGMENTS

Infotainment embedded applications

Outdoor applications: signage/kiosks/
solar inverters/chargers

Industrial IoT / robotics & factory automation

High-definition video, conference and
surveillance systems

Charging stations/solar inverters

AUTOMOTIVE-TEMP DDR3/DDR3L PART NUMBERS AND SPECIFICATIONS

Part number	Capacity	Description	Package	Configuration (Words x bits)	Speed Mbps	VDD, VDDQ	Operating temperature
D1216ECMDXGMEY	2Gb	96 ball FBGA DDR3/DDR3L	13.5x7.5x1.2	128Mx16	2133 Mbps	1.35V*	-40°C ~ +105°C
D2516ECMDXGMEY	4Gb	96 ball FBGA DDR3/DDR3L	13.5x7.5x1.2	256Mx16	2133 Mbps	1.35V*	-40°C ~ +105°C

*Backward compatible to 1.5V VDD, VDDQ

KEY FEATURES

- Long term support – Extend your product life

- Short lead times – Availability regardless of market conditions

- Stable, proven & mature die process – One-time qualification (no more die revisions)

- Compatibility - All major embedded SOCs (systems on a chip) that support DDR3 & DDR3L*

- Kingston brand - Recognised globally for quality, reliability, service and support

* Complies with the JEDEC DDR3/DDR3L industry standard

Kingston TECHNOLOGY