



kingston.com/epop

ePoP

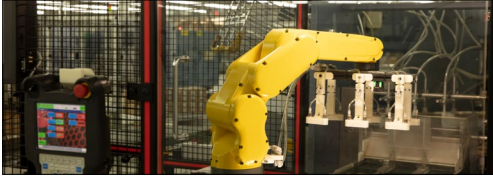
Embedded package-on-package memory for wearables

Kingston's ePoP provides a highly integrated JEDEC-standard component that combines embedded MultiMedia Card (e•MMC) storage and Low-Power Double Data Rate (LPDDR) DRAM into a package-on-package (PoP) solution. ePoP is mounted directly on top of a compatible host system-on-a-chip (SoC), which reduces printed circuit board (PCB) space and ensures optimum performance. ePoP is an ideal solution for space-constrained applications such as wearables.

KEY BENEFITS

- By mounting directly on top of a host SoC, ePoP provides an ideal solution for small-form-factor applications such as wearables.
- Low-power DRAM and optimised storage firmware reduce power consumption while delivering the high performance needed for battery-powered wearable applications.
- Simplifies system design, reduces time to market and shortens the qualification cycle.
- Multiple firmware configurations available to best fit your application requirements for performance, power and life span.

MARKET SEGMENTS



IoT



Wearables



Augmented reality (AR) / virtual reality (VR) devices

EPOP PART NUMBERS AND SPECIFICATIONS

LPDDR4x-based ePoP

Part number	Capacity		Description		Package	FBGA	Operating temperature
	NAND (GB)	DRAM (Gb)	eMMC	DRAM	(mm)		
64EP16-M4MTB9W	64	16	5.1	LPDDR4x	8x9.5x0.6	144	-25°C ~ +85°C
64EP32-M4NTB9W	64	32	5.1	LPDDR4x	8x9.5x0.65	144	-25°C ~ +85°C

LPDDR5x-based ePoP

Part number	Capacity		Description		Package	FBGA	Operating temperature
	NAND (GB)	DRAM (Gb)	eMMC	DRAM	(mm)		
64EP16-M5ATB9W	64	16	5.1	LPDDR5x	8x9.5x0.58	201	-25°C ~ +85°C
64EP32-M5BTB9G	64	32	5.1	LPDDR5x	8x9.5x0.65	201	-25°C ~ +85°C
64EP32-M5BTB9M	64	32	5.1	LPDDR5x	8x9.5x0.7	201	-25°C ~ +85°C



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