Embedded Storage & Memory Chipset
COMPATIBILITY GUIDE

eMMC Compatibility

Kingston® eMMC™ Flash memory devices follow the JEDEC 5.1 specification by combining NAND capacities ranging from 4GB up to 512GB with a powerful controller in a compact integrated circuit. The industry standard package and interface is compatible with a wide variety of both modern and legacy chipsets in Commercial and Industrial temperature ranges.

Embedded DRAM Compatibility

Kingston® DRAM is designed to meet the needs of embedded products and are available with low-voltage variants for reduced power consumption. The JEDEC compliant DDR3L, DDR4, LPDDR4 and LPDDR4x discrete devices are available in capacities ranging from 2Gb up to 64Gb in Commercial/Industrial/Auto temperature ranges. The following table is a general guideline for chipset compatibility with Kingston Embedded products. This data is gathered from product literature and many combinations have been validated by our engineers, customers, and the manufacturers themselves.

Manufacturer	Model	eMMC	UFS	eMCP/uMCP	ePOP	DDR3L	DDR4	LPDDR4	LPDDR4x
NXP	i.MX 95[1]	X							X
	i.MX 93x	X						X	X
	i.MX 91	X						X	
	i.MX 8ULP/8ULP-CS	X						X	X
	i.MX 8M Quad	X				X	X	X	
	i.MX 8M Plus	X				X	X	X	
	i.MX 8M Mini/Nano	X				X	X	X	
	i.MX 8X/Lite	X				X		X	
	i.MX 7ULP	X							
	i.MX 7Solo/ Dual	X				X			
	i.MX 6ULZ/ULL	X				X			

Manufacturer	Model	eMMC	UFS	eMCP/uMCP	ePOP	DDR3L	DDR4	LPDDR4	LPDDR4x
	i.MX 6SLL	X							
	i.MX 6SoloX/Lite/UltraLite	X				X			
	i.MX6 Dual/Quad/Plus	X				X			
AMD/Xilinx	Zynq Ultrascale series	X				X	X	X	
	Versal Series	X					X	X	
	Zynq 7000	X				X			
TI	AM62xx	X					X	X	
	AM69xx	X						X	
	AM335X	X				X			
	AM64X	X					X	X	
	AM67A	X						X	
	TDA4VM	X	X					X	
Ambarella	CV22	X					X	X	
	CV72	X							X
ST Micro	STM32 MP1 Series	X				X			
	STM32 MP2 Series	X				X	X	X	
	STM32 F,G,H7, L4,N6, U3 Series[2]	X							
Qualcomm	SW5100				X				
	QCS8250/SM8250		X						
	SAR1115P/SAR1130P				X				
	SAR2130P		X		X				
	IPQ5018					X			
	IPQ9574						X		
	SM6225			X-uMCP					
	SDX75	X							
Mediatek	MT5XXX	X				X			
	MT6XXX	X-MT6890		X-eMCP MT6990	X - MT6725			X	
	MT8XXX	X	X						
	MT7XXX						X		
	MT9XXX	X-MT9618				X			
Synaptics	DL7xxx series								X

Footnotes

1 Supports LPDDR5x

2 Some sub models may not support eMMC

Mediatek / Qualcomm / Synaptics compatibility guideline is for Kingston memory qualified with the specified chipset. Please contact emmc@kingston.com for details of part numbers. This is a general guideline, please check reference chipset manuals for storage and memory compatibility.

For more information, including sample and quote requests, please visit **here**.

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