

# Micron® Memory Support for Marvell® Processors

Save yourself time and money—Micron memory comes **validated** on Marvell ARMADA® embedded processors

Micron Memory		Marvell Processors						
		ARMADA 8K		ARMADA 7K		ARMADA XP		
		ARMADA 8020	ARMADA 8040	ARMADA 7020	ARMADA 7040	MV78230	MV78260	MV78460
		88F8020	88F8040	88F7020	88F7040			
		Dual Core ARMv8 Cortex-A72 2GHz, Mochi®	Quad Core ARMv8 Cortex-A72 2GHz, Mochi	Dual Core ARMv8 Cortex-A72, Mochi	Quad Core ARMv8 Cortex-A72A, Mochi	Dual Core ARMv7 1.6 GHz	Dual Core ARMv7 1.6 GHz	Quad Core ARMv7 1.6 GHz
DRAM	Type	DDR4 32/64-bit + optional ECC (UDIMM support)	DDR4 32/64-bit + optional ECC (UDIMM support)	DDR4 32-bit + optional ECC	DDR4 32-bit + optional ECC	DDR3/L 32-bit + optional ECC	DDR3/L 32-bit + optional ECC	DDR3/L 32/64-bit + optional ECC
	Family	<b>MT40</b>	<b>MT40</b>	<b>MT40</b>	<b>MT40</b>	<b>MT41</b>	<b>MT41</b>	<b>MT41</b>
	Density	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb
	Package	78/117 TFBGA	78/117 TFBGA	78/117 TFBGA	78/117 TFBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA
	Recommended PN	MT40A512M8RH-083E:B	MT40A512M8RH-083E:B	MT40A512M8RH-083E:B	MT40A512M8RH-083E:B	MT41K512M8DA-107:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P
NAND	Type	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)
	Family	<b>MT29</b>	<b>MT29</b>	<b>MT29</b>	<b>MT29</b>	<b>MT29</b>	<b>MT29</b>	<b>MT29</b>
	Density	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb
	Package	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP
	Recommended PN	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C
SPI NOR	Type	Quad SPI	Quad SPI	Quad SPI	Quad SPI	SPI NOR	SPI NOR	SPI NOR
	Family	<b>MT25</b>	<b>MT25</b>	<b>MT25</b>	<b>MT25</b>	<b>MT25</b>	<b>MT25</b>	<b>MT25</b>
	Density	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb	32-128Mb	32-128Mb	32-128Mb
	Package	Many	Many	Many	Many	16 SOP	16 SOP	16SOP
	Validated PN					M25P64-VMF6P***	M25P64-VMF6P***	M25P64-VMF6P***
	Recommended PN	MT25Q**	MT25Q**	MT25Q**	MT25Q**	MT25QL128ABA8ESF-OSIT	MT25QL128ABA8ESF-OSIT	MT25QL128ABA8ESF-OSIT

Please verify exact configuration and specification with your Micron or Marvell representative.  
 \*e.MMC 5.0 parts.  
 \*\*Base part number (PN).  
 \*\*\* EOL part.

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 Rev. A, 09/17 CCM004-676576390-10813



# Micron® Memory Support for Marvell® Processors

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Micron Memory		Marvell Processors							
		ARMADA 3700		ARMADA 38X					
		ARMADA 3710	ARMADA 3720	ARMADA 380	ARMADA 385	ARMADA 388	ARMADA 381	ARMADA 382	ARMADA 383
		88F3710	88F3720	88F6810	88F6820	88F6828	88F6811	88F6821	88F6W21
		Single Core ARMv8 Cortex-A53 1.2GHz	Dual Core ARMv8 Cortex-A53 1.2GHz	Single Core ARMv7 Cortex-A9 1.86GHz	Dual Core ARMv7 Cortex-A9 1.86GHz	Dual Core ARMv7 Cortex-A9 1.86GHz	Single Core ARMv7 Cortex-A9 1.33GHz	Dual Core ARMv7 Cortex-A9 1.33GHz	Dual Core ARMv7 Cortex-A9 1.2GHz
DRAM	Type	DDR3/3L/4 16-bit	DDR3/3L/4 16-bit	DDR3/3L/4 16/32-bit + optional ECC	DDR3/3L/4 16/32-bit + optional ECC	DDR3/3L/4 16/32-bit + optional ECC	DDR3/3L 16-bit	DDR3/3L 16-bit	DDR3/3L 16-bit
	Family	MT41	MT41	MT41	MT41	MT41	MT41	MT41	MT41
	Density	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb	1-8Gb
	Package	78/117 FBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA	78/117 FBGA
	Clock Frequency	up to 1066 MHz	up to 1066 MHz	800/933 MHz	800/933 MHz	800/933 MHz	667 MHz	667 MHz	667 MHz
	Validated PN			MT41K512M8RH-107:E***	MT41K512M8RH-107:E***	MT41K512M8RH-107:E***	MT41K512M8RH-107:E***	MT41K512M8RH-107:E***	MT41K512M8RH-107:E***
	Recommended PN	MT41K512M8DA-093:P	MT41K512M8DA-093:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P	MT41K512M8DA-107:P
NAND	Type			Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)	Raw (host ECC required)
	Family			MT29	MT29	MT29	MT29	MT29	MT29
	Density			8Gb	8Gb	8Gb	8Gb	8Gb	8Gb
	Package			48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP	48-pin TSOP
	Validated PN			MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C
	Recommended PN			MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C	MT29F8G08ABACAWP:C
SPI NAND / e.MMC	Type	e.MMC 5.1	e.MMC 5.1	SPI NAND	SPI NAND	SPI NAND	SPI NAND	SPI NAND	SPI NAND
	Density	4-64GB	4-64GB	1Gb	1Gb	1Gb	1Gb	1Gb	1Gb
	Package	153 VFBGA	153 VFBGA	8 UPDFN 8mm x 6mm	8 UPDFN 8mm x 6mm	8 UPDFN 8mm x 6mm	8 UPDFN 8mm x 6mm	8 UPDFN 8mm x 6mm	8 UPDFN 8mm x 6mm
	Recommended PN	MTFC4GACAJCN-1M WT*	MTFC4GACAJCN-1M WT*	MT29F1G01ABAF-DWB-IT:F	MT29F1G01ABAFDWB-IT:F	MT29F1G01ABAF-DWB-IT:F	MT29F1G01ABAF-DWB-IT:F	MT29F1G01ABAF-DWB-IT:F	MT29F1G01ABAF-DWB-IT:F
SPI NOR	Type	Quad SPI	Quad SPI	SPI (x1)	SPI (x1)	SPI (x1)	SPI (x1)	SPI (x1)	SPI (x1)
	Density	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb	8M-2Gb
	Package	Many	Many	Many	Many	Many	Many	Many	Many
	Recommended PN	MT25Q**	MT25Q**	MT25Q**	MT25Q**	MT25Q**	MT25Q**	MT25Q**	MT25Q**

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\*e.MMC 5.0 parts.

\*\*Base part number (PN).

\*\*\* EOL part.

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