

Micron® Memory Support for Renesas® Platforms

		Internal	External											
			NOR		NAND					DRAM				
Micron Memory	Product	Flash Embedded in Renesas Controller	Serial NOR, Xccela™	Parallel NOR	SLC NAND	e.MMC	SSD	μSD/SD	eUSB	LPDDR4	DDR3/3L	DDR2	SDR SDRAM	
	Family		MT35X, MT25T, MT25Q	MT28EW, MT29FW	MT29F	MTFC	MTFD	MTSD	MTED	MT53	MT41	MT47	MT48	
	Voltage		1.8V, 3.3V	3.3V	1.8V, 3.3V	3.3V	3.3V, 5V	–	3.3V, 5V	1.1V	1.35V, 1.5V	1.8V	3.3V	
	Speed		50–200 MHz SDR/DDR	Async 70–105ns	ONFI 1.0/2.2/3.0	e.MMC 4.41, 4.51, 5.x	SATA 6 Gb/s	Class 10 (UHS-I U1)	USB 2.0, 3.1	3200 Mb/s	800–2133 Mb/s	800 Mb/s	133–167 MHz	
	Width		x4, x8	x8, x16	x1, x2, x4	–	–	–	–	x32	x8, x16	x8, x16	x8, x16, x32	
	Density		128Mb–2Gb	128Mb–1Gb	1Gb–4Gb	2GB–128GB	>32GB	>32GB	2GB–16GB	4Gb–32Gb	1Gb–8Gb	512Mb–4Gb	64Mb–512Mb	
System on Chips (SOCs) Aligned with Micron Memory														
Renesas Products	R-Car H3, M3, E3	–	✓			(e.MMC 5.x)	✓	✓	✓	✓	✓ (E3)			
	R-Car H2, M2, E2, V2H	–	(MT25T, MT25Q)	✓	✓	(e.MMC 4.41)	(H2, M2: 2ch)	✓	(H2, M2: 4 ports, E2: 2 ports)		(800 MHz, H2, M2: 32 bits x 2ch, E2, V2H: 32 bits x 1ch)			
	R-Car H1, M1x, E1	–		✓		(e.MMC 4.41)	✓	✓	✓		(H1: 500 MHz, 32 bits x 2ch, M1x: 533 MHz, 32 bits, E1: 533 MHz, 16 bits)	(H1: 500 MHz, 32 bits, M1x: 400MHz, 32 bits, E1: 400 MHz, 16 bits)		
	R-Car V3M, V3H	–	(2ch: MT25Q, 1ch: MT35X, MT25T)			(e.MMC 4.51)					(800 MHz, 32 bits x 1ch)			
	R-Car D3	–	(2ch: MT25Q, 1ch: MT35X, MT25T)		✓	✓					(933 MHz, 16 bits x 1ch)			
	R-Car D1	–	✓		✓	(e.MMC 4.41)			✓		(1.35V, 1066/1333 MHz, 32 bits x 1ch)			
	R-Car W1R	32KB			No external memory interface									
	R-Car T2	–	(QSPI x 1ch)											
SH7769, 7766, 7786, 7761, 7776/7 (SH Navi)	–		✓	✓ (7786)	✓ (7769)	✓ (7776)	✓	✓ (7769, 7776/7)		✓ (7766: 356 MHz x16, 7786: 533 MHz x32, 7769: 533 MHz x16, 7776: 533 MHz x16/32)	✓ (7777: 400 MHz 32 bits)			

*For additional details, please contact your local Micron sales representative.

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Micron Memory	Product	Flash Embedded in Renesas Controller	Serial NOR, Xccela™	Parallel NOR	SLC NAND	e.MMC	SSD	µSD/SD	eUSB	LPDDR4	DDR3/3L	DDR2	SDR SDRAM	
	Family		MT35X, MT25T, MT25Q	MT28EW, MT29FW	MT29F	MTFC	MTFD	MTSD	MTED	MT53	MT41	MT47	MT48	
	Voltage		1.8V, 3.3V	3.3V	1.8V, 3.3V	3.3V	3.3V, 5V	-	3.3V, 5V	1.1V	1.35V, 1.5V	1.8V	3.3V	
	Speed		50–200 MHz, SDR/DDR	Async 70–105ns	ONFI 1.0/2.2/3.0	e.MMC 4.41, 4.51, 5.x	SATA 6 Gb/s	Class 10 (UHS-I U1)	USB 2.0, 3.1	3200 Mb/s	800–2133 Mb/s	800 Mb/s	133–167 MHz	
	Width		x4, x8	x8, x16	x1, x2, x4	-	-	-	-	x32	x8, x16	x8, x16	x8, x16, x32	
	Density		128Mb–2Gb	128Mb–1Gb	1Gb–4Gb	2GB–128GB	>32GB	>32GB	2GB–16GB	4Gb–32Gb	1Gb–8Gb	512Mb–4Gb	64Mb–512Mb	
Microcontrollers (MCUs) and Microprocessors (MPUs) Aligned with Micron Memory														
Renesas Products	RZ/A1H, A1M, A1LU, A1L	-	✓ (QSPI, SDR/DDR, 50/66 MHz MAX, 2Ch)	✓	✓*	✓	✓*	✓*	✓*				✓	
	RZ/A2M	-	✓ (Xccela 132 MHz, QSPI x1/4/8, 66MHz)		✓*	✓*	✓*	✓*	✓*				✓*	
	RZ/N1D, N1S, N1L	-	✓* (MT25Q)	✓*	✓*	✓*	✓*	✓*	✓*	✓* (N1D only)	✓* (N1D only)			
	RZ/G1M, G1N, G1E	-	✓* (QSPI, SDR, 97.5 MHz MAX, 1Ch)	✓*		✓*	✓*	✓*	✓*	✓* (G1M: 800 MHz x32 x 2ch) G1N: 800 MHz x32 x 1ch G1E: 667 MHz x32 x 1ch				
	RZ/G1C, G1H	-	✓* (MT25Q, MT25T)	✓*		✓*	✓* (G1H)	✓*	✓*	✓* (G1C: 500 MHz, 32 bits x 1ch, G1H: 800 MHz, 32 bits x 2ch)				
	RZ/T1	-	✓*										✓* (32-bit bus)	
	RH850/D1Mx, D1Lx	5MB MAX (code) + 8KB (data)	✓* (L1: x4 SDR 40 MHz L2: x4 SDR 120/DTR 80 Mx L2H: x8 SDR 120/DTR 80)									✓* (M2: 240 MHz, x16/ M2H: 240 MHz, x32)	✓* (M1H: 80 MHz, x32)	
	RX700, RX600	4MB MAX (code) + 64KB (data)	✓* (QSPI, SDR 60 MHz)			✓* (e.MMC 4.41)		✓*	✓*				✓* (60 MHz, x8/ x16/x32)	
	RX200, RX100	1MB MAX (code) + 8KB (data)	No external memory interface (except eUSB for RX111/113/230/231)											
	R-IN32M3, M4	-	✓* (x1/x2/x4, SDR, 50 MHz)	✓*										
	S7G2	4MB + 64KB	✓* (QSPI)			✓* (e.MMC 4.51)		✓*	✓*				✓* (60/120 MHz)	
	S5D5, S5D9	2MB MAX (code) + 64KB (data)	✓* (QSPI)			✓* (e.MMC 4.51)		✓*	✓*					
S3A1, S3A3, S3A6, S3A7	1MB MAX (code) + 16KB (data)	✓* (QSPI)			✓* (e.MMC 4.51)		✓*	✓*						
S124, S128, S1JA	256MB MAX (code) + 8KB (data)	✓* (QSPI x1)						✓*						

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