

# Micron® Memory Support for Renesas® Platforms



		Internal	Micron External Memory										
			NOR			NAND			DRAM				
Product	Family		Serial NOR , Xccela	Parallel NOR	SLC NAND	e.MMC	SSD	eUSB	LPDDR4	DDR3/3L	DDR2	SDR SDRAM	
		Flash Embedded in Renesas Controller	MT35X, MT25T, MT25Q	MT28EW, MT29FW	MT29F	MTFC	MTFD	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	USB 2.0, 3.1	3200M bps	800–2133M bps	800M bps	133–167 MHz	
Width			x4, x8	x8, x16	x1, x2, x4, x8, x16	–	–	–	x32	x8, x16	x8, x16	x8, x16, x32	
Density			128Mb–2Gb	128Mb–1Gb	1Gb–4Gb	2GB–128GB	>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	–	✓			✓ (e.MMC5.x)	✓*	✓*	✓				
	R-Car H2, M2, E2, V2H	–	✓ (MT25T, MT25Q)	✓*	✓*	✓* (e.MMC4.41)	✓* (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.MMC4.41)	✓*	✓*		✓ (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	–	✓* (2ch:MT25Q, 1ch: MT35X, MT25T)			✓* (e.MMC4.51)				✓ (800 MHz, 32 bits x 1ch)			
	R-Car D3	–	✓* (2ch:MT25Q, 1ch: MT35X, MT25T)		✓*	✓*				✓ (933 MHz, 16 bits x 1ch)			
	R-Car D1	–	✓*		✓*	✓* (e.MMC4.41)		✓*		✓* (1.35V, 1066/1333 MHz, 32 bits x 1ch)			
	R-Car W1R, W2R	32KB											No external memory interface
	R-Car W2H	–	✓* (QSPI)					✓* (USB 2.0)		✓* (32 bits x 1ch)			
	R-Car T2	–	✓* (QSPI x 1ch)										
	SH7769, 7766, 7786, 7761, 7776 (SH Navi)	–		✓*	✓* (7786)	✓* (7769)	✓* (7776)	✓* (7769, 7776)			✓ (7766: 356 MHz x16, 7786: 533 MHz x32, 7769: 533 MHz x16, 7776: 533 MHz x16/32)		
R-IN32M3, M4	–	✓* (x1/x2/x4, SDR, 50 MHz)	✓*										

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



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			Serial NOR , Xccela	Parallel NOR	SLC NAND	e.MMC	SSD	eUSB	LPDDR4	DDR3/3L	DDR2	SDR SDRAM	
Micron Memory	Product	Embedded Memory in Renesas Controller	MT35X, MT25T, MT25Q	MT28EW, MT29FW	MT29F	MTFC	MTFD	MTED	MT53	MT41	MT47	MT48	
	Family		MT35X, MT25T, MT25Q	MT28EW, MT29FW	MT29F	MTFC	MTFD	MTED	MT53	MT41	MT47	MT48	
	Voltage		1.8V, 3.3V	3.3V	1.8V, 3.3V	3.3V	3.3V, 5V	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	USB 2.0, 3.1	3200M bps	800–2133M bps	800 bps	133–167 MHz	
	Width		x4, x8	x8, x16	x1, x2, x4, x8, x16	–	–	–	x32	x8, x16	x8, x16	x8, x16, x32	
Density	128Mb–1Gb	128Mb–1Gb	1Gb–4Gb	2GB–128GB	>32GB	2GB–16GB	4Gb–32Gb	1Gb–8Gb	512Mb–4Gb	64Mb–512Mb			
Microcontrollers (MCUs) and Microprocessors (MPUs) Aligned with Micron Memory													
Renesas® Products	RZ/N1D, N1S, N1L	–	✓* (MT25Q)	✓*	✓*	✓*		✓*		✓* (only N1D)	✓* (only N1D)		
	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 x32 x 1ch G1H: 800 MHz x32 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)	
	RH850/E1	RAM: 160–320KB / 8KB ROM: 2–4MB / 64KB		No external memory interface									
	RX700, RX600	4MB max (code) + 64KB (700) / 32KB (600) (data)	✓* (QSPI, SDR, 60 MHz)			✓* (e.MMC 4.41)		✓*				✓* (60 MHz, x8/x16/x32)	
	RX200, RX100	2MB max (code) + 32KB (data)		No external memory interface									
	Synergy Microcontrollers Aligned with Micron Memory												
	S7G2	4MB + 64KB	✓* (QSPI)			✓* (e.MMC 4.51)		✓*					✓* (60/120 MHz)
S5D5, S5D9	128KB (code) + 4KB (data)												
S3A3, S3A6, S3A7	1MB + 16KB	✓* (QSPI)			✓* (e.MMC 4.51)		✓*						
S124, S128	1MB + 16KB	✓* (QSPI)			✓* (e.MMC 4.51)		✓*						

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