

◆M16C Family

● M16C/60 group

Memory type	Memory size (byte)		Type No.	Package	Operating voltage range (V)	Operating temperature range (°C)
	ROM	RAM				
Mask ROM	64K	10K	M30600M8-XXXFP	100P6S-A	2.7 to 5.5	- 40 to 85
			M30600M8-XXXGP	100P6Q-A		
One time PROM			M30600E8-XXXFP	100P6S-A		
			M30600E8-XXXGP	100P6Q-A		
EPROM		10K	M30600E8FS	100D0		
External ROM			M30600SFP	100P6S-A		
			M30600SGP	100P6Q-A		

● M16C/61 group (SIM-compatible serial I/O built in)

Memory type	Memory size (byte)		Type No.	Package	Operating voltage range (V)	Operating temperature range (°C)
	ROM	RAM				
Mask ROM	32K	4K	M30612M4-XXXFP ★	100P6S-A	2.7 to 5.5	- 40 to 85
			M30612M4-XXXGP ★	100P6Q-A		
	64K	4K	M30612M8-XXXFP★ ★	100P6S-A		
			M30612M8-XXXGP★ ★	100P6Q-A		
	96K	10K	M30610MA-XXXFP ★	100P6S-A		
		4K	M30612MA-XXXFP ★	100P6S-A		
	128K	10K	M30610MC-XXXFP ★	100P6S-A		
		5K	M30612MC-XXXFP ★	100P6S-A		
One time PROM	32K	4K	M30612E4-XXXFP ★	100P6S-A		
			M30612E4-XXXGP ★	100P6Q-A		
	64K	4K	M30612E8-XXXFP ★ ★	100P6S-A		
			M30612E8-XXXGP★ ★	100P6Q-A		
EPROM	128	10K	M30610EC-XXXFP ★	100P6S-A		
			M30612E4FS	★	100D0	
	32K	4K	M30612E8FS	★ ★	100D0	
			M30610ECFS	★	100D0	
External ROM		4K	M30612SFP	★	100P6S-A	
			M30612SGP	★	100P6Q-A	

■ 32-BIT MICROCOMPUTERS

● M16 family

Group Name	ROM Type	Type No.		Clock oscillating frequency (MHz)	Shortest instruction execution time (ns)	Operating temperature range (°C)	Power supply voltage (V)	Memory size (bytes)		Package
								ROM	RAM	
M16/10	External ROM	M31000S2FP		20	100	- 20 to 85	4.5 to 5.5	—	2K	160pin QFP (160P6C)
M16/11	External ROM	M31002S2HP	★	20	100	- 20 to 85	4.5 to 5.5	—	2K	160pin QFP (160P6E)
M16/12	One time PROM	M31010E3HP	★	20	100	- 20 to 85	3.0 to 5.5	48K	3K	100pin QFP (100P6D-A)
		M31010E6HP	★	20	100	- 20 to 85	3.0 to 5.5	96K	4K	100pin QFP (100P6D-A)
	Mask ROM	M31010M3-XXXHP	★	20	100	- 20 to 85	3.0 to 5.5	48K	3K	100pin QFP (100P6D-A)
		M31010M6-XXXHP	★	20	100	- 20 to 85	3.0 to 5.5	96K	4K	100pin QFP (100P6D-A)
	Flash memory	M31011F8VP	★ ★	20	100	- 20 to 85	2.7 to 5.5	128K	5K	120pin LQFP (120P6R)
	Mask ROM	M31011M8-XXXVP	★ ★	20	100	- 20 to 85	2.7 to 5.5	128K	5K	120pin LQFP (120P6R)

● M32R family

Series	ROM Type	Type No.		Internal clock frequency (MHz)	Shortest instruction execution time (ns)	Operating temperature range (°C)	Power supply voltage (V)	Memory size (bytes)		Package
								DRAM	Cache	
M32R/D	External ROM	M32000D3FP	★ ★	66.6	15	0 to 70	3.0 to 3.6	1M	4K	100pin LQFP (100P6A)
		M32000D4AFP	★ ★	66.6	15	0 to 70	3.0 to 3.6	2M	4K	100pin LQFP (100P6A)

■ 32-BIT MICROPROCESSORS

● M32 family

Type No.	Name	Operating frequency	Bench mark (Note1)	Transistor number	Package
M33210AFP-20	M32/100	20MHz	① 8.0MIPS (20MHz) ② 14,000 cycle/sec. (20MHz)	Approximately 34 thousand	160pin QFP

Note 1. ① : Bench mark ② : Dhrystone

MICRO-COMPUTERS