

# MARC4 Product Overview

For datasheet click the part-number please

	M43C505	M44C090	M44C092	M44C260	M44C510	M44C588	M44C636
<b>ROM × 8</b>	4096	2048	4096	4096	4096	9216	4096
<b>Test ROM × 8</b>	-	512	512	1024	1024	1024	-
<b>RAM × 4</b>	253	128	128	256	256	256+256	253
<b>EEPROM × 8</b>	-			16	-	-	-
<b>IN/OUT (bi-directional)</b>	12 + 1	12	16	16	32	16 + 16	12 + 1
<b>IN</b>	4	-	-	2	-	-	4
<b>Prescaler</b>	2	1	1	1	2	2	2
<b>8-bit timer</b>	-	1	2	2	2	2	2
<b>Watchdog</b>	-	yes	yes	yes	yes	yes	yes
<b>Batt. low</b>	-	yes	yes	-	-	yes	-
<b>High I out</b>	-	-	-	-	8 × 20 mA	4 × 4 mA @ 2.4 V	2 × 1 mA
<b>Serial I/O</b>	-	8 bit sync.	8 bit sync.	-	-	8 bit sync.	-
<b>LCD</b>	20 × 4	-	-	-	-	32 × 4	20 × 4
<b>Analog I/O</b>	-	-	1 comparator	-	-	-	-
<b>Interrupts</b>	2 int., 3 ext.	6 int., 6 ext.	7 int., 7 ext.	3 int., 3 ext.	4 int., 10 ext.	5 int., 8 ext.	4 int., 3 ext.
<b>Peripheral clock</b>	32 kHz	32 kHz	32 kHz	32 kHz	32 kHz	32 kHz	32 kHz
<b>System clock</b>	2 MHz (RC)	4 MHz (Q,(R)C)	4 MHz (Q,(R)C)	4.2 MHz	4 MHz (Q,(R)C)	4 MHz (Q,(R)C)	1 MHz (1.5 V) 500 kHz (3 V)
<b>Inst. cycle</b>	1 μs	0.5 μs	0.5 μs	1 μs	0.5 μs	0.5 μs	4 μs
<b>IDD active</b>	1.4 mA	1 mA	1 mA	4 mA	1 mA	1.4 mA	400 μA (1.5 V) 180 μA (3 V)
<b>I sleep (3 V)</b>	3 μA	1 μA	1 μA	0,8 μA	3 μA	4 μA	0.8 μA
<b>Suppl. voltage</b>	2.4 - 5.5 V	1.8 - 6.2 V	1.8 - 6.2 V	2.4 - 6.2 V	2.4 - 6.2 V	2.4 - 6.2 V	1.2 - 2.2 V 1.8 V-3.6 V
<b>Package</b>	DIT QFP64  PLCC44	DIT SO8 SO16	DIT SO20 SSO20	DIT SO28 SSO20	DIT PDIL24,40  SO28 SSO44	DIT QFP100	DIT QFP64  PLCC44
<b>Eval. type</b>	M45C535 (metal-ROM)	M48C092 (EEPROM)	M48C092 (EEPROM)	M48C260 (EEPROM)	M40C510 (Piggyback)		M40C636 (Piggyback)