PIC КОНТРОЛЛЕРЫ

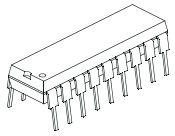
MICROCHIP

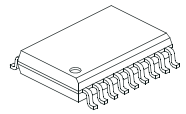
СИСТЕМА ОБОЗНАЧЕНИЙ

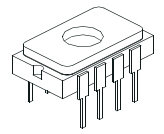
PIC16F84 04 I P
1 2 3 4

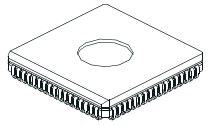
1. **Тип процессора**
2. **Тактовая частота, МГц**
3. **Диапазон раб. температур**
   не обознач. – 0...+70°C
   I – –40...+85°C
4. **Тип корпуса**
   P – PDIP (0,6")
   SO – SOIC (0,3")
   SP – PDIP (0,3")
   SN – 8-SOIC (0,15")
   SM – 8-SOIC (0,207")
   SS – SSOP
   JW – керам. DIP с окном
   L – PLCC
   PQ – PQFP
   PT – TQFP
   SL – 14-SIOC (0,15")
   CL – керам. LCC с окном

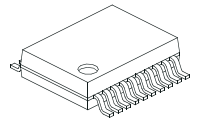
ТИПЫ КОРПУСОВ

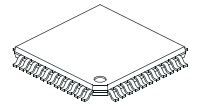

DIP


SO


CerDIP


PLCC


SSOP


TQFP

Тип корпуса	Шаг выводов, мм	Ширина корпуса, мм
DIP (0,3")	2.54	7.62
DIP (0,6")	2.54	15.24
SO (0,15")	1.27	3.81
SO (0,207")	1.27	5.25
SO (0,3")	1.27	7.5
SSOP (0,209")	0.65	5.25
PLCC	1.27	
PQFP	0.8	
TQFP	0.5	

Наим-е	Память программ (слов)	EEPROM данных, байт	ОЗУ данных, байт	Макс. такт. частота, МГц	Разряды ввода/ вывода	АЦП (8-бит) каналов	Последоват. порты	ШИМ	Компараторы	Таймеры	ICSP	Типы корпусов
PIC 12C508A	512x12	–	25	4	6	–	–	–	–	1+WDT	+	8P, 8SM, 8JW, 8SN
PIC 12C509A	1024x12	–	41	4	6	–	–	–	–	1+WDT	+	8P, 8SM, 8JW, 8SN
PIC 12CE518	512x12	16	25	4	6	–	–	–	–	1+WDT	+	8P, 8SM, 8JW, 8SN
PIC 12CE519	1024x12	16	41	4	6	–	–	–	–	1+WDT	+	8P, 8SM, 8JW, 8SN
PIC 12C671	1024x14	–	128	10	6	4	–	–	–	1+WDT	+	8P, 8SM, 8JW
PIC 12C672	2048x14	–	128	10	6	4	–	–	–	1+WDT	+	8P, 8SM, 8JW
PIC 12CE673	1024x14	16	128	10	6	4	–	–	–	1+WDT	+	8P, 8JW
PIC 12CE674	2048x14	16	128	10	6	4	–	–	–	1+WDT	+	8P, 8JW
PIC 16C505	1024x12	–	72	20	12	–	–	–	–	1+WDT	+	14P, 14JW, 14SL
PIC 16C54C	512x12	–	25	20	12	–	–	–	–	1+WDT		18P, 18JW, 18SO, 20SS
PIC 16C55A	512x12	–	24	20	20	–	–	–	–	1+WDT		28P, 28JW, 28SP, 28SO, 28SS
PIC 16C56A	1024x12	–	25	20	12	–	–	–	–	1+WDT		18P, 18JW, 18SO, 20SS
PIC 16C57C	2048x12	–	72	20	20	–	–	–	–	1+WDT		28P, 28JW, 28SP, 28SO, 28SS
PIC 16C58B	2048x12	–	73	20	12	–	–	–	–	1+WDT		18P, 18JW, 18SO, 20SS
PIC 14000	4096x14	–	192	20	20	8	IIC/SMB	–	2	2+WDT	+	28SP, 28SO, 28SS, 28JW
PIC 16C554	512x14	–	80	20	13	–	–	–	–	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C558	2048x14	–	128	20	13	–	–	–	–	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C62B	2048x14	–	128	20	22	–	IIC/SPI	1	–	3+WDT	+	28SP, 28SO, 28SS, 28JW
PIC 16C63A	4096x14	–	192	20	22	–	USART/IIC/SPI	2	–	3+WDT	+	28SP, 28SO, 28SS, 28JW
PIC 16C65B	4096x14	–	192	20	33	–	USART/IIC/SPI	2	–	3+WDT	+	40P, 40JW, 44L, 44PQ, 44PT
PIC 16C66	8192x14	–	368	20	22	–	USART/IIC/SPI	2	–	3+WDT	+	28SP, 28SO, 28JW
PIC 16C67	8192x14	–	368	20	33	–	USART/IIC/SPI	2	–	3+WDT	+	40P, 40JW, 44L, 44PQ, 44PT
PIC 16C620A	512x14	–	96	20	13	–	–	–	2	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C621A	1024x14	–	96	20	13	–	–	–	2	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C622A	2048x14	–	128	20	13	–	–	–	2	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C710	512x14	–	36	20	13	4	–	–	–	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C711	1024x14	–	68	20	13	4	–	–	–	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C712	1024x14	–	128	20	13	4	–	1	–	3+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C715	2048x14	–	128	20	13	4	–	–	–	1+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C716	2048x14	–	128	20	13	4	–	1	–	3+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C717	2048x14	–	256	20	16	6 (10бит)	MIIC/SPI	1	–	3+WDT	+	18P, 18JW, 18SO, 20SS
PIC 16C72A	2048x14	–	128	20	22	5	IIC/SPI	1	–	3+WDT	+	28SP, 28SO, 28JW, 28SS
PIC 16C73B	4096x14	–	192	20	22	5	USART/IIC/SPI	2	–	3+WDT	+	28SP, 28SO, 28JW, 28SS
PIC 16C74B	4096x14	–	192	20	33	8	USART/IIC/SPI	2	–	3+WDT	+	40P, 40JW, 44L, 44PQ, 44PT
PIC 16C76	8192x14	–	368	20	22	5	USART/IIC/SPI	2	–	3+WDT	+	28SP, 28SO, 28JW
PIC 16C77	8192x14	–	368	20	33	8	USART/IIC/SPI	2	–	3+WDT	+	40P, 40JW, 44L, 44PQ, 44PT
PIC 16F84A	1024x14 (Flash)	64	68	20	13	–	–	–	–	1+WDT	+	18P, 18SO, 20SS
PIC 16F870	2048x14 (Flash)	64	128	20	22	5 (10 бит)	USART	1	–	3+WDT	+	28SP, 28SO, 28SS
PIC 16F871	2048x14 (Flash)	64	128	20	33	8 (10 бит)	USART	1	–	3+WDT	+	40P, 44L, 44PT
PIC 16F872	2048x14 (Flash)	64	128	20	22	5 (10 бит)	MIIC/SPI	1	–	3+WDT	+	28SP, 28SO, 28SS
PIC 16F873	4096x14 (Flash)	128	192	20	22	5 (10 бит)	USART/MIIC/SPI	2	–	3+WDT	+	28SP, 28SO
PIC 16F874	4096x14 (Flash)	128	192	20	33	8 (10 бит)	USART/MIIC/SPI	2	–	3+WDT	+	40P, 44L, 44PQ, 44PT
PIC 16F876	8192x14 (Flash)	256	368	20	22	5 (10 бит)	USART/MIIC/SPI	2	–	3+WDT	+	28SP, 28SO
PIC 16F877	8192x14 (Flash)	256	368	20	33	8 (10 бит)	USART/MIIC/SPI	2	–	3+WDT	+	40P, 44L, 44PQ, 44PT
PIC 17C42A	2048x16	–	232	33	33	–	USART	2	–	4+WDT	–	40P, 40JW, 44L, 44PQ, 44PT
PIC 17C43	4096x16	–	454	33	33	–	USART	2	–	4+WDT	–	40P, 40JW, 44L, 44PQ, 44PT
PIC 17C44	8192x16	–	454	33	33	–	USART	2	–	4+WDT	–	40P, 40JW, 44L, 44PQ, 44PT
PIC 17C752	8192x16	–	678	33	50	12 (10 бит)	USART(2)/MIIC/SPI	3	–	4+WDT	+	68L, 64PT
PIC 17C756	16384x16	–	902	33	50	12 (10 бит)	USART(2)/MIIC/SPI	3	–	4+WDT	+	68CL, 68L, 64PT
PIC 17C762	8192x16	–	678	33	66	16 (10 бит)	USART(2)/MIIC/SPI	3	–	4+WDT	+	80PT, 84L
PIC 17C766	16384x16	–	902	33	66	16 (10 бит)	USART(2)/MIIC/SPI	3	–	4+WDT	+	80PT, 84L, 84CL

Список сокращений: ICSP - возможность последовательного программирования непосредственно в изделии (устройстве), **WDT** - сторожевой таймер, **IIC/SPI/USART** - интерфейсы последовательной передачи данных, **MIIC** - Master IIC.

ПРОГРАММАТОР PIC START

Портативный программатор для PIC контроллеров.
Используется для программирования:

– PIC 16C5X – PIC 16C8X
– PIC 16C6X – PIC 17C4X
– PIC 16C7X – PIC 16C6XX

Работает под управлением MP-LAB.
Поставляется с программным обеспечением от **MICROCHIP** на CD-ROM.