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|--------------------|-----------|------------|-----------|------------------------|------------|------------|------------|
| Mask Version | Yes | N/A | Yes | N/A | Yes | N/A | |
| Working Voltage | 2.5~5.5 | 2.5~5.5 | 2.5~5.5 | 2.5~6.25 | 2.3~5.5 | 2.5~6.25 | |
| Program Memory | 512x13 | 512/1Kx12 | 1Kx13 | 512/1Kx12 | 4Kx13 | 2Kx12 | |
| User Memory RAM | 32x8 | 25/41x8 | 48x8 | 25x8 | 148x8 | 72x8 | |
| I/O pins | 6/12 | 5 | 12 | 12 | 20/24 | 20 | |
| Instruction Clock | 2 | 4 | 2 | 4 | 2 | 4 | |
| Oscillation Mode | 5 | 4 | 4, (5) | 4 | 4 | 4 | |
| Instruction Set | 57 | 33 | 57 | 33 | 57 | 33 | |
| Max.Operating | XT | 16(4 clks) | 8(4 clks) | 18(2clks) 36(4clks) | 20(4 clks) | 36(4 clks) | 20(4 clks) |
| | RC | 4(4 clks) | 4(4 clks) | 4(4 clks) | 4(4 clks) | 4(4 clks) | 8(4 clks) |
| Page Size | 1K | 512 | 1K | 512 | 1K | 512 | |
| Available for CALL | 1K | 256 | 1K | 256 | 1K | 256 | |
| Option Code | 13 | N/A | 6 | N/A | 7(13) | N/A | |
| Interrupt(In/Ex) | 3 (1/2) | N/A | 3(1/2) | N/A | 3(1/2) | N/A | |
| Pull-High Pins | 6/8 | N/A | 8 | N/A | 10 | N/A | |
| Pull-Low Pins | 3/7 | N/A | 7 | N/A | 0 | N/A | |
| Wake-Up Pins | 6/8 | N/A | 8 | N/A | 10 | N/A | |
| Open-Drain Pins | 6/8 | N/A | 8 | N/A | 2 | N/A | |
| R-Option Pins | 0 | N/A | 2 | N/A | 2 | N/A | |
| Stack | 5 | 2 | 5 | 2 | 5 | 2 | |
| POVD | Yes | N/A | Yes | N/A | Yes | N/A | |
| Timer Modules | 8-bitx1 | 8-bitx1 | 8-bitx1 | 8-bitx1 | 8-bitx1 | 8-bitx1 | |
| WDT | Yes | Yes | Yes | Yes | Yes | Yes | |

表 2 PIC 和 EMC 指令对照表

| PIC | | EMC | | PIC | | EMC | |
|--------|-----|------|-----|--------|-----|-------|-----|
| 字节操作指令 | | | | 位操作指令 | | | |
| NOP | | NOP | | BCF | f,b | BC | R,b |
| NOVWF | f | MOV | R,A | BSF | f,b | BS | R,b |
| CLRW | | CLRA | | BTFSC | f,b | JBC | R,b |
| CLRF | f | CLR | R | BTFSS | f,b | JBS | R,B |
| SUBWF | f,0 | SUB | A,R | 控制指令 | | | |
| SUBWF | f,1 | SUB | R,A | OPTION | | CONTW | |
| DECWF | f,0 | DECA | R | SLEED | | SLEP | |
| DECWF | f,1 | DEC | R | CLRWF | f | WDTL | R |
| IORWF | f,0 | OR | A,R | TRIS | K | IOW | |
| IORWF | f,1 | OR | R,A | RETLW | K | RETL | K |
| ANDWF | f,0 | AND | A,R | CALL | K | CALL | K |
| ANDWF | f,1 | AND | R,A | GOTO | K | JMP | K |
| XORWF | f,0 | XOR | A,R | MOVLW | K | MOV | A,K |
| XORWF | f,1 | XOR | R,A | IORLW | K | OR | A,K |
| ADDWF | f,0 | ADD | A,R | ANDLW | K | AND | A,K |



| | | | |
|--------|-----|-------|-----|
| ADDWF | f,1 | ADD | R,A |
| MOVF | f,0 | MOV | A,R |
| MOVF | f,1 | MOV | R,R |
| COMF | f,0 | COMA | R |
| COMF | f,1 | COM | R |
| INCF | f,0 | INCA | R |
| INCF | f,1 | INC | R |
| DECFSZ | f,0 | DJZA | R |
| DECFSZ | f,1 | DJZ | R |
| RRF | f,0 | RRCA | R |
| RRF | f,1 | RRC | R |
| RLF | f,0 | RLCA | R |
| RLF | f,1 | RLC | R |
| SWAPF | f,0 | SWAPA | R |
| SWAPF | f,1 | SWAP | R |
| INCFSZ | f,0 | JZA | R |
| INCFSZ | f,1 | JA | R |

| | | | |
|-------|---|-------|-----|
| XORLW | K | XOR | A,K |
| 其它 | | | |
| | | DAA | |
| | | ENI | |
| | | DISI | |
| | | RET | |
| | | RETI | |
| | | CONTR | |
| | | IOR | R |
| | | SUB | A,K |
| | | INT | |
| | | ADD | A,K |
| | | | |
| | | | |
| | | | |
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| | | | |