



PIC 16F87X Microcontroller Development board

1. Power Switch
2. Regulator IC 7805
3. 6 digit seven segment LED (1st LED is on the left, 6th LED is on the right)
4. S9 push button, connects to RB1
5. S10 push button, connects to RB2
6. S11 push button, connects to RB3
7. S12 push button, connects to RB4
8. S3 push button, connects to RB0 via S13-1
9. S2 push button, connects to MCLR
10. VR, connects to RA0 via S13-2
11. S5 dip switch, 1 – NC, 2 – NC, 3 – 1st LED, 4 – 2nd LED, 5 – 3rd LED, 6 – 4th LED, 7 – 5th LED, 8 – 6th LED
12. S4 dip switch, control seven segment LED
13. Infrared reception
14. S6 dip switch, control output I/O, 1 – RB1, 2 – RB0, 3 – RA5, 4 – RA4, 5 – RA3, 6 – RA2, 7 – RA1, 8 – RA0
15. S7 dip switch, control output I/O, 1 – RC3, 2 – RC2, 3 – RC1, 4 – RC0, 5 – RB5, 6 – RB4, 7 – RB3, 8 – RB2
16. S8 dip switch, control output I/O, 1 – NC, 2 – NC, 3 – NC, 4 – NC, 5 – RC7, 6 – RC6, 7 – RC5, 8 – RC4
17. extended I/O connector
18. 40 pin PIC socket
19. J3, J4 crystal oscillation selection. RC or XT/HS.
20. 28 pin PIC socket
21. S13 dip switch, 1 – S3 to RB0, 2 – VR1 to RA0, 3 – Infrared to RA1, 4 – DS18B20 to RA2, 5 – buzzer to RC6, 6 & 7 – MAX232 Txd and Rxd to Tx and Rx
22. 16 pin socket for 1602 LCD
23. 8 LEDs
24. S1 dip switch, control 8 LEDs to RC0-7 connection
25. DS18B20 socket
26. J7 jumper, emulator power supply selection
27. SPI EEPROM 93CXX, CS connects to RB1, CLK to RB2, DI to RB4, DO to RB5
28. I2C EEPROM 24CXX, SDA connects to RB5, SCLK to RB4
29. Emulator socket
30. Serial connector
31. Power LED
32. buzzer, S13-5 connects to RC6
33. External DC supply. DC7-10V, 500mA, outside negative polarity