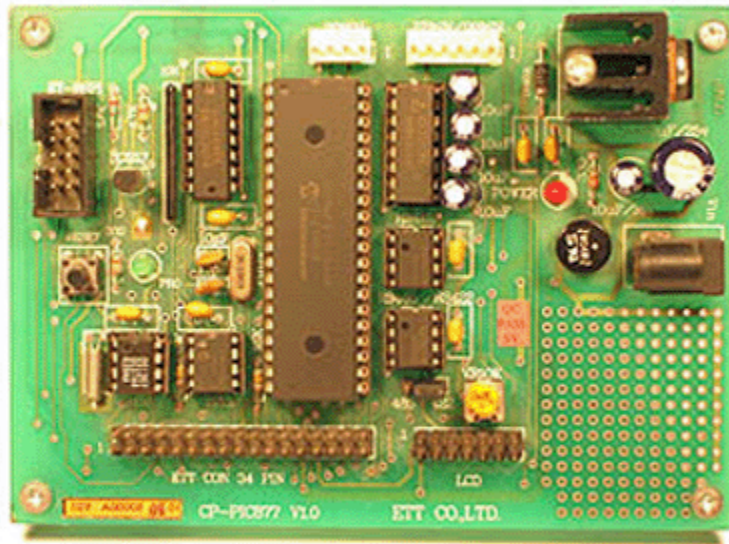


Model: DPPR-0118
PIC16F877A Microcontroller Demo board
A Product of DPPR Systems (P) Ltd.
An ISO 9001:2008 Certified Company



PIC16F877A Microcontroller Demo board designed for Reduced instruction set computing, or RISC core microcontroller Series with tested 5 c example code .The Compilers can used limited version of ccs or Hi-tech for c.

- 1: Led blanking.
- 2: 4-Seven Segment Display.
- 3: 2 Line LCD Display.
- 4: Serial port Pc interfacing VIA Hyper Terminal.
- 5: 24C512 Serial Memory chip interfacing and DS307 RTC.

For any Equerry please contact info@dpprsystems.in
Visit us: www.dpprsystems.in
Contact us: +91 9415174555

PIC16F877A

40-pin 8-Bit CMOS FLASH Microcontroller

Microcontroller Core Features:

- High-performance RISC CPU
- Only 35 single word instructions to learn
- All single cycle instructions except for program branches which are two cycle
- Operating speed: DC - 20 MHz clock input
DC - 200 ns instruction cycle
- Up to 8K x 14 words of FLASH Program Memory,
Up to 368 x 8 bytes of Data Memory (RAM)
Up to 256 x 8 bytes of EEPROM data memory
- Pin out compatible to the PIC16C73B/74B/76/77
- Interrupt capability (up to 14 sources)
- Eight level deep hardware stack
- Direct, indirect and relative addressing modes
- Power-on Reset (POR)
- Power-up Timer (PWRT) and
Oscillator Start-up Timer (OST)
- Watchdog Timer (WDT) with its own on-chip RC
oscillator for reliable operation
- Programmable code-protection
- Power saving SLEEP mode
- Selectable oscillator options
- Low-power, high-speed CMOS FLASH/EEPROM
technology
- Fully static design
- In-Circuit Serial Programming (ICSP) via two
pins
- Single 5V In-Circuit Serial Programming capability
- In-Circuit Debugging via two pins
- Processor read/write access to program memory
- Wide operating voltage range: 2.0V to 5.5V
- High Sink/Source Current: 25 mA
- Commercial and Industrial temperature ranges
- Low-power consumption:
 - < 2 mA typical @ 5V, 4 MHz
 - 20 µA typical @ 3V, 32 kHz
 - < 1 µA typical standby current

Pin Diagram

Peripheral Features:

- Timer0: 8-bit timer/counter with 8-bit prescaler
- Timer1: 16-bit timer/counter with prescaler,
can be incremented during sleep via external
crystal/clock
- Timer2: 8-bit timer/counter with 8-bit period
register, prescaler and postscaler
- Two Capture, Compare, PWM modules
 - Capture is 16-bit, max. resolution is 12.5 ns
 - Compare is 16-bit, max. resolution is 200 ns
 - PWM max. resolution is 10-bit
- 10-bit multi-channel Analog-to-Digital converter
- Synchronous Serial Port (SSP) with SPI^ä (Master
Mode) and I2C^ä (Master/Slave)
- Universal Synchronous Asynchronous Receiver
Transmitter (USART/SCI) with 9-bit address
detection
- Parallel Slave Port (PSP) 8-bits wide, with
external RD, WR and CS controls
- Brown-out detection circuitry for
Brown-out Reset (BOR)

Full data sheet can down loaded from microchip.com