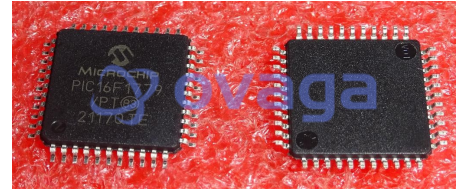


8 Bit MCU, PIC16 Family PIC16F17XX Series Microcontrollers, 32 MHz, 28 KB, 2 KB, 44 Pins, TQFP



Images are for reference only

Manufacturers	Microchip Technology, Inc
Package/Case	TQFP-44
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	

Please submit RFQ for PIC16F1779-I/PT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

PIC16(L)F177X microcontrollers feature a high level of integration of Intelligent Analog and digital peripherals for a wide range of applications, such as lighting, power supplies, battery charging, motor control and other general purpose applications. These devices deliver multiple Op Amps, 5-/10-bit DACs, High-Speed Comparators, 10-bit ADC, 10-/16-bit PWMs, Programmable Ramp Generator (PRG) and other peripherals that can be connected internally to create closed loop systems without using pins or PCB area. The 10 and 16-bit PWMs, the Digital Signal Modulator (DSM) and tri-state output Op Amp can be used together to create a LED dimming engine. The Peripheral Pin Select (PPS) functionality provides flexibility, eases PCB layout and peripheral utilization by allowing digital peripheral pin mapping to any I/O.

Features

Enhanced Mid-range Core with 49 Instruction, 16 Stack Levels

Flash Program Memory with self read/write capability

128 Bytes of Non-Volatile Data Storage, High-Endurance Flash (HEF)

Internal clock speeds from 32MHz to 31kHz

4x Op Amps

4x 10-bit DACs

4x 5-bit DACs

8x High-Speed Comparators

10-bit ADC with 28 channels

Zero Cross Detect (ZCD)

4x Programmable Ramp Generator (PRG)

4x 10-bit PWMs

4x 16-bit PWMs

2x 100mA I/Os

4x Capture, Compare, PWM (CCP)

4x Complementary Output Generator (COG)

4x Configurable Logic Controller (CLC)

EUSART

I²C/SPI

Peripheral Pin Select (PPS)

5x 8-bit Timers (TMR0/2/4/6/8)

3x 16-bit Timer (TMR1/3/5)

Extended Watchdog Timer (WDT)

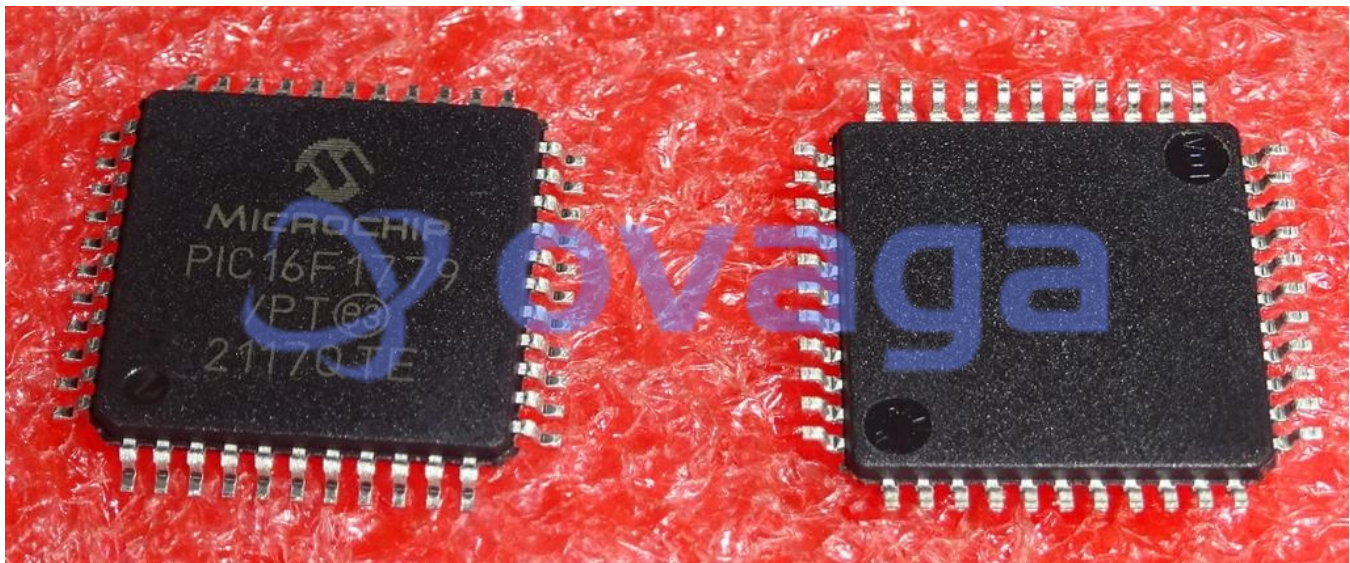
Enhanced Power-On/Off-Reset

Low-Power Brown-Out Reset (LPBOR)

Programmable Brown-Out Reset (BOR)

In Circuit Serial Programming (ICSP)

PIC16F1779 (2.3V – 5.5V)



Related Products



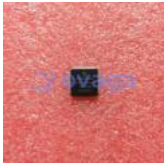
[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc
SSOP-20



[PIC16F1938-I/SP](#)

Microchip Technology, Inc
PDIP-28



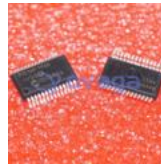
[PIC18F6520-I/PT](#)

Microchip Technology, Inc
TQFP-64



[PIC18F2620-I/SO](#)

Microchip Technology, Inc
SOIC-28



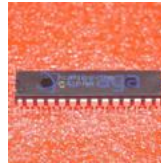
[PIC16F1936-I/SS](#)

Microchip Technology, Inc
SSOP-28



[PIC18F23K22-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F2620-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F97J60T-I/PT](#)

Microchip Technology, Inc
TQFP-100