

8 Bit MCU, XLP, PIC16 Family PIC16F19XX Series Microcontrollers, 32 MHz, 28 KB, 2 KB, 44 Pins, TQFP

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



Images are for reference only

Please submit RFQ for PIC16F19176-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)F19176 microcontrollers offer eXtreme Low-Power (XLP) LCD drive coupled with Core Independent Peripherals and Intelligent Analog. They are especially suited for battery powered LCD applications due to an integrated charge pump, high current I/O drive for backlighting and battery backup of the Real Time Clock/Calendar (RTCC). Active clock tuning of the HFINTOSC provides a highly accurate clock source over voltage and temperature. The family also features a new 12-bit ADC2 automating Capacitive Voltage Divider (CVD) techniques for advanced touch sensing, averaging, filtering, oversampling and automatic threshold comparison. Other new features include low-power IDLE and DOZE modes, Device Information Area (DIA), and Memory Access Partition (MAP). This low-power product will be offered in 40/44-pins to support the customer in various LCD and general purpose applications.

Features

28KB Flash Memory

256b DataEE

2048 RAM

Up to 184 LCD Segments

LCD Charge Pump

Bias Generator

High-Precision Internal Oscillator

Active clock tuning of HFINTOSC over voltage and temperature

31 I/O Pins

12-bit ADC2, 35 ch

5-bit DAC

2x Comparator (1 Low-Power, 1 High-Speed)

2x 8-bit Timers w/ HLT

2x 16-bit Timers

Windowed Watchdog Timer

2x CCP

2x 10-bit PWM

1x Complementary Waveform Generator (CWG)

4x Configurable Logic Cell (CLC)

Zero Cross Detect (ZCD)

Temperature Sensor

Memory Access Partition (MAP)

Write protect

Custom Partition

2x EUSART

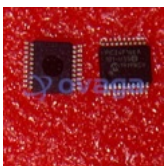
1x I2C

1x SPI

Peripheral Pin Select

Peripheral Module Disable

Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc
SSOP-20



[PIC16F1936-I/SS](#)

Microchip Technology, Inc
SSOP-28



[PIC16F1938-I/SP](#)

Microchip Technology, Inc
PDIP-28



[PIC18F23K22-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F6520-I/PT](#)

Microchip Technology, Inc
TQFP-64



[PIC18F2620-I/SO](#)

Microchip Technology, Inc
SOIC-28



[PIC18F2620-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F97J60T-I/PT](#)

Microchip Technology, Inc
TQFP-100