

14 PIN, 4KB FLASH, 128 RAM, 12 I/O, -40C to +85C, 14-SOIC 150mil, TUBE, Microcontrollers (MCU) 4KB Flash 128 RAM

Manufacturers	Microchip Technology, Inc
Package/Case	SOIC-14
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PIC16F616-I/SL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

DEVICE OVERVIEW

The PIC16F610/616/16HV610/616 is covered by this data sheet. It is available in 14-pin PDIP, SOIC, TSSOP and 16-pin QFN packages. Block Diagrams and pinout descriptions of the devices are as follows:

- PIC16F610/16HV610 (Figure 1-1, Table 1-1)
- PIC16F616/16HV616 (Figure 1-2, Table 1-2)

High-Performance RISC CPU:

- Only 35 Instructions to Learn:
 - All single-cycle instructions except branches
- Operating Speed:
 - DC – 20 MHz oscillator/clock input
 - DC – 200 ns instruction cycle
- Interrupt Capability
- 8-Level Deep Hardware Stack
- Direct, Indirect and Relative Addressing modes

PIC16F616/16HV616 only:

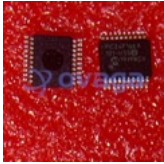
- A/D Converter:
 - 10-bit resolution
 - 8 external input channels
 - 2 internal reference channels
- Timer2: 8-Bit Timer/Counter with 8-Bit Period Register, Prescaler and Postscaler
- Enhanced Capture, Compare, PWM module:
 - 16-bit Capture, max. resolution 12.5 ns
 - 16-bit Compare, max. resolution 200 ns
 - 10-bit PWM with 1, 2 or 4 output channels, programmable “dead time”, max. frequency 20 kHz

Features

Low-Power :

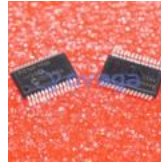
Peripheral :

Related Products



[PIC24F16KA101-I/SS](#)

Microchip Technology, Inc
SSOP-20



[PIC16F1936-I/SS](#)

Microchip Technology, Inc
SSOP-28



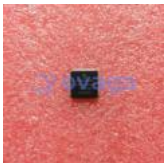
[PIC16F1938-I/SP](#)

Microchip Technology, Inc
PDIP-28



[PIC18F23K22-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F6520-I/PT](#)

Microchip Technology, Inc
TQFP-64



[PIC18F2620-I/SP](#)

Microchip Technology, Inc
SPDIP-28



[PIC18F2620-I/SO](#)

Microchip Technology, Inc
SOIC-28



[PIC18F97J60T-I/PT](#)

Microchip Technology, Inc
TQFP-100