

14-Pin, Flash-Based 8-Bit CMOS Microcontrollers, Microcontrollers (MCU) 4KB Flash 128 RAM

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOIC-14
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for PIC16F616T-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:

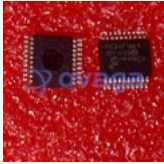
- A/D Converter:
  - 10-bit resolution
  - 8 external input channels
  - 2 internal reference channels
- Timer2: 8-Bit Timer/Counter with 8-Bit Period Register, Prescaler and Postscaler
- Enhanced Capture, Compare, PWM module:
  - 16-bit Capture, max. resolution 12.5 ns
  - 16-bit Compare, max. resolution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

## Features

Low-Power :

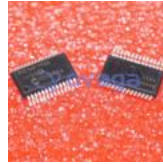
Peripheral :

## Related Products



### [PIC24F16KA101-I/SS](#)

Microchip Technology, Inc  
SSOP-20



### [PIC16F1936-I/SS](#)

Microchip Technology, Inc  
SSOP-28



### [PIC16F1938-I/SP](#)

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PDIP-28



### [PIC18F23K22-I/SP](#)

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### [PIC18F6520-I/PT](#)

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TQFP-64



### [PIC18F2620-I/SP](#)

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SPDIP-28



### [PIC18F2620-I/SO](#)

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SOIC-28



### [PIC18F97J60T-I/PT](#)

Microchip Technology, Inc  
TQFP-100