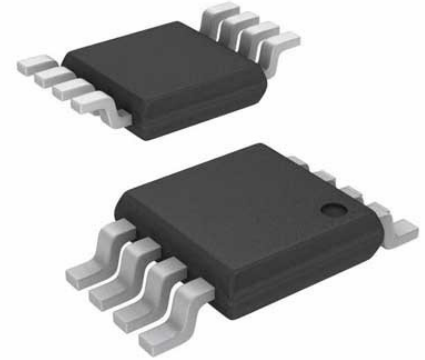8 Bit MCU, Flash, PIC12 Family PIC12LF15xx Series Microcontrollers, 32 MHz, 1.75 KB, 128 Byte

Manufacturers	Microchip Technology, Inc
Package/Case	MSOP-8
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for PIC12F1571-I/MS or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

PIC12(L)F157X microcontrollers combine the capabilities of 16-bit PWMs with Analog to suit a variety of applications. These devices deliver three 16-bit PWMs with independent timers, for applications where high resolution is needed, such as LED lighting, stepper motors, power supplies and other general-purpose applications. The core independent peripherals (16-bit PWMs, Complementary Waveform Generator), Enhanced Universal Synchronous Asynchronous Receiver Transceiver and Intelligent Analog (ADCs, Comparator and DAC) enable closed loop feedback and communication for use in multiple market segments, such as LIN applications.Debug Support• Debug and Programming support is available via PICkit™ 3, and MPLAB® ICDDemonstration PlatformPrecision RGB LED color mix with interactive control via mTouch Technology slider, PC Chromaticity Selector GUI, and auto rotation of predetermined color palette.www.microchip.com/rgbbadge

Features

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

Flash Program Memory with self read/write capability

High Endurance Flash Memory (HEF)

128 B of Non-volatile Data Storage

Internal clock speeds from 31kHz to 32MHz

3x Standalone 16-bit PWMs

Complementary Waveform Generator (CWG)

4 Channel 10-bit ADC with Voltage Reference

5-bit Digital to Analog Converter (DAC)

Comparator

2x 8-bit Timers (TMR0/TMR2)

1x 16-bit Timer (TMR1)

Three additional 16-bit Timers available using the 16-bit PWMs

Extended Watchdog Timer (WDT)

Enhanced Power-On/Off-Reset

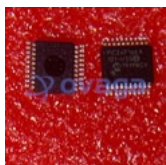Low-Power Brown-Out Reset (LPBOR)

Programmable Brown-Out Reset (BOR)

In Circuit Serial Programming (ICSP)

Wide Operation Voltage Variant 'F' (1.8V – 5.5V)

eXtreme Low Power (XLP) 'LF' Variant (1.8V – 3.6V)

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