


## MCU 8-bit 8051 CISC 32KB Flash 3.3V/5V 32-Pin LQFP T/R



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Silicon Laboratories Inc</a>
<b>Package/Case:</b>	LQFP32
<b>Product Type:</b>	Embedded Processors & Controllers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

The C8051F41x small microcontroller (MCU) family is the most analog-intensive small form factor MCU on the market. The C8051F41x small MCUs have an integrated 24-channel 12-bit ADC and dual 12-bit DACs. These mixed-signal microcontrollers include up to 32 kB of flash with 2 kB RAM in a 5 mm x 5 mm package.

With on-chip Power-On Reset, VDD monitor, Watchdog Timer, and a clock oscillator, the C8051F41x devices are truly standalone system-on-a-chip solutions. The Flash memory can be reprogrammed even in-circuit, providing non-volatile data storage and also allowing field upgrades of the 8051 firmware. User software has complete control of all peripherals, and may individually shut down any or all peripherals for power savings.

### Key Features

50 MIPS 8051 CPU

16 to 32 kB Flash

2304 B RAM

12-bit, 200 ksps,  $\pm 1$  LSB INL ADC

12-bit DAC(s)

24 digital I/O, 5.25 V tolerant smaRTClock

2.0 to 5.25 V supply

On-chip debug

### Recommended For You

**C8051F320-GQ**

Silicon Laboratories Inc

QFP

**C8051F120-GQ**

Silicon Laboratories Inc

QFP

**C8051F300-GMR**

Silicon Laboratories Inc

QFN11

**C8051F020-GQ**

Silicon Laboratories Inc

TQFP100

**C8051F300-GM**

Silicon Laboratories Inc

QFN11

**C8051F330-GM**

Silicon Laboratories Inc

QFN

**C8051F330-GMR**

Silicon Laboratories Inc

QFN20

**C8051F350-GQ**

Silicon Laboratories Inc

LQFP32

**C8051F040-GQ**

Silicon Laboratories Inc

QFP100

**C8051F321-GM**

Silicon Laboratories Inc

QFN28

**C8051F530-C-IT**

Silicon Laboratories Inc

TSSOP20

**C8051F503-IQ**

Silicon Laboratories Inc

QFP

**C8051F411-GMR**

Silicon Laboratories Inc

QFN28

**C8051F130-GQ**

Silicon Laboratories Inc

TQFP100

**C8051F582-IQ**

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QFP