


## MCU 8-bit 8051 CISC 64KB Flash 2.5V/3.3V/5V 44-Pin TQFP

### Tray

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	TQFP
<b>Product Type:</b>	Embedded Processors & Controllers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

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### General Description

Single-cycle microcontroller with 8KB ISP flash, 12-clock compatibility mode, 256 bytes flash data memory, 256 bytes RAM, three timers, UART, WDT, up to 36 I/Os, and an internal RC oscillator.

#### Key Features:

100% software and timing compatibility with AT89S51, meaning no changes to existing software, including fetching from external ROM or read/write from/to external RAM.

Disable compatibility mode to achieve on average 9 times more throughput at the same current consumption and frequency as AT89S51; or lower the clock frequency 9 times and achieve the same speed as AT89S51 but with more than 5 times less current consumption.

Save even more power and the cost of the quartz crystal altogether by using the internal 1.8432 MHz RC oscillator, which is Vcc and temperature compensated well enough to ensure proper UART serial communications. Together with the built-in POR and the BOD circuits, which ensure proper reset control, you do not need any external components for AT89LP51 to provide the reset and clock functions.

The AT89LP51 UART can function as an almost complete master SPI port or can improve software emulation of TWI.

Use In-Application Programming with fast page programming to alter the built-in 4K Flash program memory while executing the application, in effect making it possible to have programmable data tables embedded in the program code. Expert users can create self-modifying code with this feature.

### Recommended For You

#### ATmega8-16PU

Microchip Technology, Inc

DIP

#### ATmega162-16PU

Microchip Technology, Inc

DIP40

#### AT91RM9200-CJ-002

Microchip Technology, Inc

BGA

#### AT89C2051-12PU

Microchip Technology, Inc

DIP

#### ATmega8515L-8PU

Microchip Technology, Inc

DIP

#### AT91SAM9G20B-CFU

Microchip Technology, Inc

247-TFBGA

**ATtiny20-XUR**

Microchip Technology, Inc  
TSSOP14

**AT89LS52-16PU**

Microchip Technology, Inc  
DIP

**ATtiny12L-4SUR**

Microchip Technology, Inc  
SOP8

**ATmega324PA-PU**

Microchip Technology, Inc  
PDIP

**ATmega8535-16JU**

Microchip Technology, Inc  
PLCC44

**ATtiny44A-PU**

Microchip Technology, Inc  
DIP

**AT89C5131A-S3SUM**

Microchip Technology, Inc  
PLCC52

**ATmega162V-8PU**

Microchip Technology, Inc  
DIP40

**AT89C5115-SISUM**

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PLCC-28