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

Manufacturer:	Microchip Technology, Inc
Package/Case:	PLCC44
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

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	ATmega162-16PU	AT91RM9200-CJ-002
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
DIP	DIP40	BGA

AT89C2051-12PU	ATmega8515L-8PU	AT91SAM9G20B-CFU
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
DIP	DIP	247-TFBGA

ATtiny20-XUR	AT89LS52-16PU	ATtiny12L-4SUR
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
TSSOP14	DIP	SOP8

ATmega324PA-PU	ATmega8535-16JU	ATtiny44A-PU
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
PDIP	PLCC44	DIP

AT89C5131A-S3SUM	ATmega162V-8PU	AT89C5115-SISUM
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
PLCC52	DIP40	PLCC-28