

# At89c2051 8 Bit Mcu With 2k Bytes Flash

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### At89c2051 8 Bit Mcu With

#### **AT89C2051, 8-bit MCU with 2K Bytes Flash**

versatile 8-bit CPU with Flash on a monolithic chip, the Atmel AT89C2051 is a power-ful microcomputer which provides a highly-flexible and cost-effective solution to many embedded control applications The AT89C2051 provides the following standard features: 2K bytes of Flash, 128

#### **AT89C2051 8-Bit Microcontroller with 2 Kbytes Flash**

By combining a versatile 8-bit CPU with Flash on a monolithic chip, the Atmel AT89C2051 is a powerful microcomputer which provides a highly flexible and cost effective solution to many embedded control applications The AT89C2051 provides the following standard features: 2 Kbytes of Flash, 128 bytes of

#### **8-bit Microcontroller with 4K Bytes Flash AT89C4051**

tile 8-bit CPU with Flash on a monolithic chip, the Atmel AT89C4051 is a powerful microcontroller which provides a highly-flexible and cost-effective solution to many embedded control applications The AT89C4051 provides the following standard features: 4K bytes of Flash,

#### **Using the AT89C2051 Microcontroller as a Virtual Machine**

Using the AT89C2051 Microcontroller as a Virtual Machine It is often cited that what differentiates an embedded microcontroller from other general purpose computing devices is its integration into a larger electrical or elec-tro-mechanical system While this is generally true, the fact remains that pro-cessors of widely differing capability and

#### **Migrating from AT89C2051/C4051 to**

13 Two 16-bit Enhanced Timer/Counters with 8-bit PWM Timers count once every clock cycle compared to the AT89C2051/C4051 which count once every 12 clock cycles (one machine cycle) Timer 1 Mode 0 can act as a 9 to 16 bit timer/counter versus a 13-bit timer/counter for the AT89C2051/C4051

**AT89S2051/S4051 Preliminary Datasheet**

combining a versatile 8-bit CPU with Flash on a monolithic chip, the Atmel AT89S2051/S4051 is a powerful microcontroller which provides a highly-flexible and cost-effective solution to many embedded control applications Moreover, the AT89S2051/S4051 is designed to be function compatible with the AT89C2051/C4051 devices, respectively

**8-BIT MICROCONTROLLER - Keil**

W79E4051/2051 has one 8-bit, one 7-bit and one 2-bit ports using on-chip oscillator by reset options Except P10 and P11, all ports are in quasi-bidirectional structure that the internal weakly pull-ups are present as the port registers are set to logic one P10~P11, the alternate function are analog

**Interfacing a Microcontroller based Remote Controller ...**

The 8 bit Microcontroller AT89C2051 unit (MCU) is used to control the whole operation And this IR receiver sends a bit stream to the microcontroller unit (MCU) Because of the wide availability of cheap remote controls, the RC-5 protocol from Philips used to decode the bit stream by using the program,

**80C51/87C51/80C52/87C52 80C51 8-bit microcontroller family**

Philips Semiconductors Product specification 80C51/87C51/80C52/87C52 80C51 8-bit microcontroller family 4 K/8 K OTP/ROM low voltage (27 V-55 V),

**Microcontroller Instruction Set**

rel Signed (two's complement) 8-bit offset byte Used by SJMP and all conditional jumps Range is -128 to +127 bytes relative to first byte of the following instruction bit Direct Addressed bit in Internal Data RAM or Special Function Register 0509B-B-12/97 Instruction Set

**YSZ-4 Four Digit Electronic Clock Instruction Manual "C51 ...**

YSZ-4 Four Digit Electronic Clock Instruction Manual "C51 4 bit Clock Kit" YSZ-4 four electronic clock, it uses an AT89C2051 as its core, a total of 16 electronic components to create a clock with hours/minutes or minutes/seconds, two independent alarms, (8:00 -20:00) hourly chime, accurate adjustment, and other functions 1> Rationale

**Atmel Flash-Based Microcontrollers (Slideshow)**

microcontrollers cust 5/96 product offerings • at89 8xc51 series - compatible with industry standard - aimed at broad market • at90 avr tm series - proprietary high performance architecture - initially aimed at narrow high volume market • arm7tdmi 32-bit risc series - low cost, high performance embedded core - aimed at compute intensive applications

**GENERALINTEREST Multi-event Alarm Clock**

The circuit diagram of the Multi-event Alarm Clock shown in Figure 1 is easy to understand, the central parts being a contemporary combination of a microcontroller, a real-time clock and an LC display At the heart of the circuit sits a powerful yet inexpensive and widely available 8051-compatible 8-bit micro-controller type AT89C2051 from

**Implementation of MCU Invariant I2C Slave Driver Using Bit ...**

Every byte put on the SDA line must be 8-bit long Each byte has to be followed by an acknowledgement bit The data AT89C2051, also do not have universal serial be used to achieve serial I2C communication just by changing the timer of specific MCU, to maintain the bit rate and interrupt driven PORT pins of the SCL and the SDA

**Atmel Product Guide - September 1999**

EEPROM, 4 Channel, 10-bit ADC, 8-pin PDIP and SOIC Packages 4Q99 ATtiny 15L AVR 27-volt, AVR RISC Microcontroller with 1K Byte In-System Programmable Flash Memory, ATSTK200 AT89S/AT90S Flash MCU Starter Kit with A/D Support Now ATSTK300 megaAVR AT89C2051 2K x 8 80C31 Microcontroller with 2K Bytes Flash, 20-pin Package Now

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AVR 8-BIT RISC MICROCONTROLLERS Atmel's low power, high performance AVR microcontrollers handle demanding 8 and 16-bit applications With a single-cycle instruction RISC CPU, innovative picoPower® technology, and a rich feature set, the AVR achitecture ensures fast code execution combined with the lowest possible power consumption

**AT89C2051 Flash MCU Application Note - Politechnika Śląska**

AT89C2051 Flash Microcontroller Application Note A Digital Thermometer Using the AT89C2051 Microcontroller Introduction The system presented in this application note implements a simple digital ther-mometer that includes a built-in LCD and RS-485 communication port It is designed around Atmel's AT89C2051 processor, a DS1620 digital thermome-

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22470 AT89C1051-24SC ATMEL 8-bit Microcontroller 24MHz 1K Byte Flash 64 x 8-bit 15 Programmable I/O - 20P/SOIC 35368 AT89C2051-24PU ATMEL 8-bit MCU with 2K Bytes Flash 24MHz 2K FLASH 128 UART 20P/DIP 32713 AT89C2051-24SU ATMEL 8-bit MCU with 2K Bytes Flash 24MHz 2K FLASH 128 UART 20P/SOIC

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