

Image may be representation.  
See specifications for product details.



## AT89C51ED2-RDTUM

|                          |                                 |
|--------------------------|---------------------------------|
| Manufacturer Part Number | <b>AT89C51ED2-RDTUM</b>         |
| Manufacturer             | <b>Atmel</b>                    |
| Allelco Part Number      | 32D-AT89C51ED2-RDTUM            |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode |
| Parts Description        | IC MCU 8BIT 64KB FLASH 64VQFP   |
| Package                  | 64-LQFP                         |
| Data sheet               | AT89C51ED2-RDTUM.pdf            |

**Get a Quote**

AT89C51ED2-RDTUM - Atmel.New Original in Stock. Download Linear Technology AT89C51ED2-RDTUM datasheet/specifications on AllelcoElec.com.  
Request a quote for AT89C51ED2-RDTUM, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

AT89C51ED2-RDTUM Tech Specifications  
AT89C51ED2-RDTUM - Atmel technical specifications, attributes, parameters

| Product Attribute          | Attribute Value | Product Attribute     | Attribute Value   |
|----------------------------|-----------------|-----------------------|-------------------|
| Manufacturer               | Atmel           | Oscillator Type       | External          |
| Voltage - Supply (Vcc/Vdd) | 2.7V ~ 5.5V     | Operating Temperature | -40°C ~ 85°C (TA) |
| Supplier Device Package    | 64-VQFP (10x10) | Number of I/O         | 50                |
| Speed                      | 60MHz           | Mounting Type         | Surface Mount     |
| Series                     | 89C             | EEPROM Size           | 2K x 8            |
| RAM Size                   | 2K x 8          | Data Converters       | -                 |
| Program Memory Type        | FLASH           | Core Size             | 8-Bit             |
| Program Memory Size        | 64KB (64K x 8)  | Core Processor        | 80C51             |
| Peripherals                | POR, PWM, WDT   | Connectivity          | SPI, UART/USART   |
| Package / Case             | 64-LQFP         | Base Product Number   | AT89C51           |
| Package                    | Bulk            |                       |                   |

## Parts with Similar Specifications

The three parts on the right have similar specifications to Atmel AT89C51ED2-RDTUM

| Product Attribute          |                   |                         |                         |                            |
|----------------------------|-------------------|-------------------------|-------------------------|----------------------------|
| Part Number                | AT89C51ED2-RDTUM  | <b>AT89C51ED2-RLTUM</b> | <b>AT89C51ED2-SLRUM</b> | <b>AT89C51CC03UA-SLSUM</b> |
| Manufacturer               | Atmel             | Microchip Technology    | Atmel                   | Microchip Technology       |
| Data Converters            | -                 | -                       | -                       | A/D 8x10b                  |
| RAM Size                   | 2K x 8            | 2K x 8                  | 2K x 8                  | 2.25K x 8                  |
| Operating Temperature      | -40°C ~ 85°C (TA) | -40°C ~ 85°C (TA)       | -40°C ~ 85°C (TA)       | -40°C ~ 85°C (TA)          |
| Program Memory Size        | 64KB (64K x 8)    | 64KB (64K x 8)          | 64KB (64K x 8)          | 64KB (64K x 8)             |
| Mounting Type              | Surface Mount     | Surface Mount           | Surface Mount           | Surface Mount              |
| Connectivity               | SPI, UART/USART   | SPI, UART/USART         | SPI, UART/USART         | CANbus, UART/USART         |
| Number of I/O              | 50                | 34                      | 34                      | 36                         |
| Oscillator Type            | External          | External                | External                | External                   |
| Core Processor             | 80C51             | 80C51                   | 80C51                   | 80C51                      |
| Speed                      | 60MHz             | 60MHz                   | 60MHz                   | 40MHz                      |
| Program Memory Type        | FLASH             | FLASH                   | FLASH                   | FLASH                      |
| Voltage - Supply (Vcc/Vdd) | 2.7V ~ 5.5V       | 2.7V ~ 5.5V             | 2.7V ~ 5.5V             | 3V ~ 5.5V                  |
| Peripherals                | POR, PWM, WDT     | POR, PWM, WDT           | POR, PWM, WDT           | POR, PWM, WDT              |
| Series                     | 89C               | 89C                     | 89C                     | AT89C CAN                  |
| EEPROM Size                | 2K x 8            | 2K x 8                  | 2K x 8                  | 2K x 8                     |
| Supplier Device Package    | 64-VQFP (10x10)   | 44-VQFP (10x10)         | 44-PLCC (16.6x16.6)     | 44-PLCC (16.6x16.6)        |
| Package / Case             | 64-LQFP           | 44-LQFP                 | 44-LCC (J-Lead)         | 44-LCC (J-Lead)            |
| Base Product Number        | AT89C51           | AT89C51                 | AT89C51                 | AT89C51                    |
| Core Size                  | 8-Bit             | 8-Bit                   | 8-Bit                   | 8-Bit                      |
| Package                    | Bulk              | Tray                    | Bulk                    | Tube                       |

## Customers Also Interested in

### Recommended Products



**AT89C51ED2-RLTUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFP

**AT89C51E02-UM**  
Atmel (Microchip Technology)

**AT89C51ED2-SLRUM**  
Atmel  
IC MCU 8BIT 64KB FLASH 44PLCC

**AT89C51CC03UA-SLSUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 44PLCC

**AT89C51ED2-RDVIM**  
Atmel (Microchip Technology)

**AT89C51ED2-3CSIM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 40PDIL



**AT89C51ED2-SLSUM**  
Atmel  
IC MCU 8BIT 64KB FLASH 44PLCC



**AT89C51CC03CA-UM**  
Atmel (Microchip Technology)



**AT89C51CC03CA-RLTUM**  
Atmel  
IC MCU 8BIT 64KB FLASH 44VQFP



**AT89C51ED2-SMSUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 68PLCC



**AT89C51ED2-IM**  
Atmel (Microchip Technology)



**AT89C51ED2-SLRUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 44PLCC



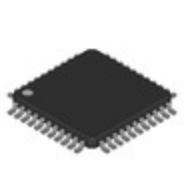
**AT89C51CC03CA-RLTUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFP



**AT89C51ED2-RDTIM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 44VQFP



**AT89C51ED2-RDTUM**  
Microchip Technology  
IC MCU 8BIT 64KB FLASH 64VQFP



**AT89C51ED2-RLTUM**  
Atmel  
IC MCU 8BIT 64KB FLASH 44VQFP

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

### Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference

| Region      | Country        | Logistic Time(Day) |
|-------------|----------------|--------------------|
| America     | United States  | 5                  |
|             | Brazil         | 7                  |
| Europe      | Germany        | 5                  |
|             | United Kingdom | 4                  |
|             | Italy          | 5                  |
| Oceania     | Australia      | 6                  |
|             | New Zealand    | 7                  |
| Asia        | India          | 6                  |
|             | Japan          | 7                  |
| Middle East | Israel         | 6                  |

DHL & FedEx Shipment Charges Reference

| Shipment charges(KG) | Reference DHL(USD\$) |
|----------------------|----------------------|
| 0.00kg-1.00kg        | USD\$60.00           |
| 1.00kg-2.00kg        | USD\$70.00           |
| 2.00kg-3.00kg        | USD\$80.00           |

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

## Payment Support

The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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- Efficient Supply Management
- Cost-Saving Procurement
- Fast Sourcing & Delivery

Contact us if you have any questions.

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- Email  
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## Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com

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