

Instructions for using the EasyList

EasyList

Renesas Technology America MCU Selection Guide
Spring 2007 Edition

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1. Select MCUs

Use the condensed listing in the EasyList tables, or for memory and package variants plus parametric search, go to the website:
america.renesas.com

2. Get Detailed Specifications

Download HW manuals for MCUs of interest from the Renesas web site. Get regular product updates by registering for "My Renesas" at:
update.renesas.com/registration

3. Evaluate Our MCUs Today!

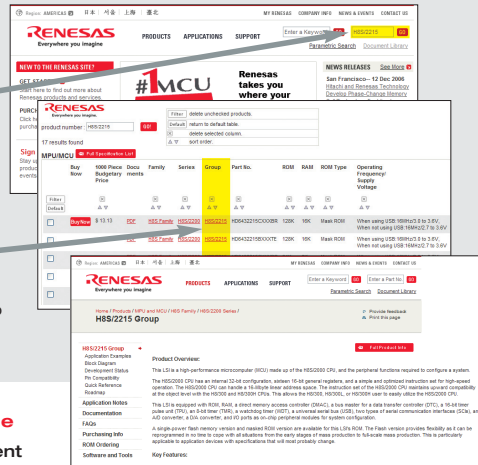
Order sample devices and starter kits online, and visit **Renesas Interactive** for FREE online courses, development tool evaluation, and application resources at:
renesasinteractive.com

Finding memory and package variants on the Renesas website

1 Locate the Group Number in the Group column on the EasyList table

2 Enter the Group Number in the Part Number search on the website for results that list variants.

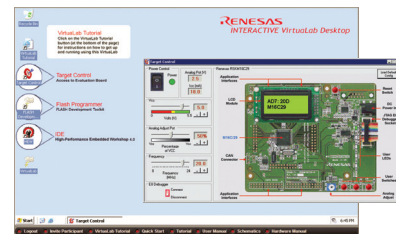
3 Click on the Group link in the results list to go to the Product Overview page for more details.



Renesas Interactive Your Online Environment for Semiconductor Device Research, Evaluation and Application

Renesas Interactive is a valuable FREE online evaluation service that lets you work at your own pace, whenever it is most convenient to do so.

- Take an online interactive training course and learn about the details of Renesas MCU product architectures and peripheral functions, as well as hardware and software development tools.
- Access actual hardware, software and tools in the Virtual Lab Development Environment and take weeks off your MCU assessment, evaluation and setup process.
- Watch live or archived webcasts and find out about new Renesas technology, products and services.



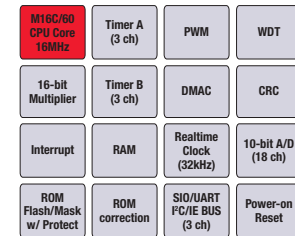
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M16C/30P – 16-bit MCU, < 3 cents per pin!

The M16C/30P is a lower-cost version of the versatile, general-purpose M16C/62P and offers great features for a single low price of **\$2.90**, regardless of order quantity.



M16C/30P Block Diagram



Outstanding Value!

- ▶ 16MHz 16-bit single-cycle performance
- ▶ 100-pin QFP package provides abundant I/O
- ▶ 128K Flash / 5K RAM option
- ▶ Mid-point in the M16C platform for scalability
- ▶ World-class integrated development tools
- ▶ Jump-start your evaluation with the QSK30P give-away promotion*



america.renesas.com/ReachM16C/ez

*Limited quantities - requires online registration and validation.

CAN/LIN Solutions for Industrial Apps

CAN and LIN networking technologies are excellent solutions for a wide range of industrial embedded applications. Order the Renesas CAN/LIN development kit now and experience a fast start to CAN/LIN solutions!

Renesas CAN – High Speed, Great Cost/Performance

- ▶ M16C platform provides performance, scalability and high reliability
- ▶ 16 or 32 flexibly-configurable message buffers for efficient data mgmt.
- ▶ Acceptance-filter Support Unit (ASU) prescreens messages to increase network rigidity and reduce CPU overhead
- ▶ Retransmission abort and forced bus-off restore functions for better network control.

Renesas LIN - Low Cost, High Reliability

- ▶ Single-wire for cost saving & reliability
- ▶ Built-in LIN hardware reduces CPU overhead
- ▶ High-speed on-chip oscillator eliminates the need for an external crystal
- ▶ Signal control improves EMC performance
- ▶ Dynamic master/slave configuration lowers manufacturing costs

america.renesas.com/lin-can



Kit Ordering # RCDK08C

Renesas CAN Development Kit

- ▶ Two Renesas target boards with:
 - Renesas R8C or M16C MCUs
 - ISO 11898-2 compliant CAN transceivers
 - LCD, switches and LEDs
 - 5V DC power supply
- ▶ USB-based E8 on-chip debug emulator
- ▶ ISO 11898-2 spec. twisted-pair cables
- ▶ Sys Tec Electronics USB CANmodul1 (CAN BUS sniffer) and CD
- ▶ Software CD including HEW 4 development & debugging environment for M16C
- ▶ Quick-start guide
- ▶ Sample CAN network demo program
- ▶ CAN sample driver code
- ▶ LIN sample code available on website

Everywhere you imagine. **RENEASAS**

www.renesas.com

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The Renesas EasyList Selection Guide is a shortcut that simplifies the MCU selection process by summarizing key 8-bit, 16-bit and 32-bit devices recommended for new embedded system designs.

Renesas Technology, the world's No. 1* provider of microcontrollers, takes you where your imagination leads.



Renesas Technology matches the right MCUs with your ideas. Our complete lineup of flash-equipped microcontrollers, combined with the development tools you need, allows total design flexibility:

- ▶ SuperH — reaches top speed of 200 MHz
- ▶ H8SX — 32-bit CISC, single-cycle, powerhouse MCUs
- ▶ M16C — broadest platform with true code and pin compatibility
- ▶ R8C/Tiny — brings 16-bit performance to 8-bit applications



And because each family features compatible architecture and standard platforms, you can choose a Renesas MCU today that will serve you in the future. Reach beyond the imaginable — Reach further with Renesas.

* Source: Gartner Dataquest (April 2006) "2005 Worldwide Microcontroller Vendor Revenue" GJ06333

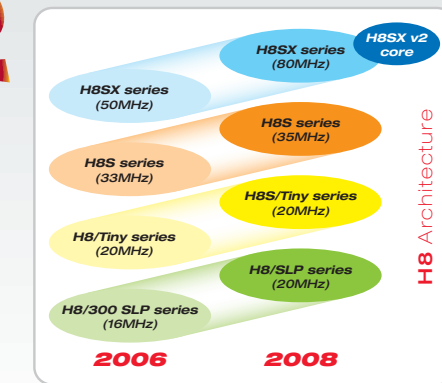
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