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RCM2200 RabbitCore®

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Description

Our award-winning Ethernet-enabled RCM2200 RabbitCore microprocessor core module is a compact yet powerful embedded control solution for application developers working with a small design footprint. Only half the size of a credit card, the RCM2200 features the powerful [Rabbit® 2000 microprocessor](#), 256K of Flash memory, 128K of SRAM, 4 serial ports, 26 I/O, real-time clock, and integrated Ethernet. (To permit parallel development and cost-effective implementation of both Ethernet-enabled and non-Ethernet systems, our pin-compatible RCM2300 model is also available.)

Features

- Compact size (2.3" x 1.6" x 0.86")
- 10Base-T Ethernet
- Up to 512K Flash
- Up to 512K SRAM
- 26 general-purpose I/O

Designing with RabbitCores

The RabbitCore family of microprocessor core modules is designed to facilitate rapid development and implementation of embedded systems. RabbitCores are powered by high-performance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the [Dynamic C®](#) development system. The RabbitCore mounts on a user-designed motherboard and acts as the controlling microprocessor for the user's system. Small in size but packed with powerful features, these core modules give designers a complete package for control and communication.

The integrated Ethernet port frees designers from the limitations of serial-port communications and control and also permits instant local or worldwide connectivity using low-cost networking hardware. Embedded systems using the Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet.

RCM2200 CoreModule Specifications

| Features | RCM2200 | RCM2210 | RCM2250 | RCM2260 |
|----------------------------|---|-----------------------------|-------------------------|------------------------------|
| Microprocessor | | Rabbit 2000T at 22.1 MHz | | |
| Ethernet Port | 10Base-T, RJ-45, 2 LEDs | 10Base-T (raw signals only) | 10Base-T, RJ-45, 2 LEDs | 10Base-T, (raw signals only) |
| Flash | | 256K | | 512K |
| SRAM | | 128K | | 512K |
| Backup Battery | Connection for user-supplied battery (to support RTC and SRAM) | | | |
| General Purpose I/O | 26 parallel I/O include: <ul style="list-style-type: none"> • 16 configurable I/O • 7 fixed inputs • 3 fixed outputs | | | |
| Additional Inputs | 2 Startup Mode, Reset | | | |
| Additional Outputs | Status, Reset | | | |
| Memory I/O | 4 address, 8 data, plus I/O Read-Write | | | |
| Serial Ports | Four 5 V CMOS-compatible, 2 configurable as clocked ports (1 clocked line available only on programming header) | | | |
| Serial Rate | Max. burst rate = CLK/32 Max. sustained rate = burst/2 | | | |
| Connectors | Two 2 x 13, 2 mm IDC headers | | | |
| Slave Interface | Slave port permits use as master or as intelligent peripheral with other master controller | | | |
| Real-Time Clock | Yes | | | |
| Timers | Five 8-bit timers (four cascadable from the first) and one 10-bit timer with 2 match registers | | | |
| Watchdog/Supervisor | Yes | | | |
| Power | 4.75-5.25 V DC, 134 mA | | | |
| Operating Temp. | -40°C to +70°C | | | |
| Humidity | 5-95%, non-condensing | | | |
| Board Size | 2.3" x 1.6" x 0.86" (59 mm x 41 mm x 22 mm) | | | |
| Part Number | 20-101-0454 | 20-101-0488 | 20-101-0494 | 20-101-0955 |
| Development Kit | U.S. 101-0475, Int'l 101-0476 | | | |

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