

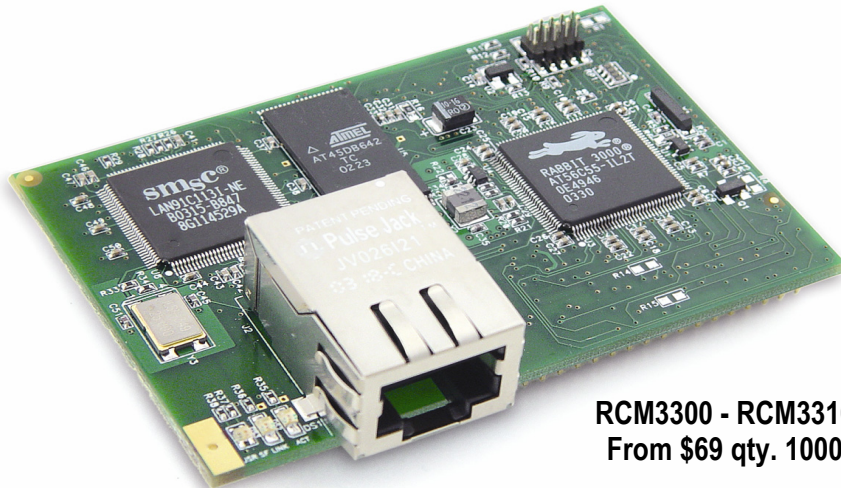


# RCM3300 – RCM3310 RabbitCore™

Microprocessor Core Module  
Models RCM3300, RCM3310

## The RCM3300 - RCM3310 – Smarter...Faster...Stronger

The RCM3300 and RCM3310 RabbitCore microprocessor core modules are ideal solutions for designers who want to rapidly develop serial Flash into their embedded application. The RCM3300/3310 offer 4 – 8 MB of serial Flash.



RCM3300 - RCM3310  
From \$69 qty. 1000

The RCM3300 and RCM3310 come fully loaded: Rabbit 3000 @ 44 MHz clock, 10/100Base-T Ethernet connectivity, 512K Flash, 512K program execution SRAM, 512K data SRAM and up to 50 digital I/O shared with up to 6 serial ports operating at 3.3 V (with 5 V-tolerant I/O). Derived from industrial client feedback and combining traditional RabbitCore product strengths into one device, the RCM3300 series takes microprocessor core modules to

the next level. Software bundles can also be added (see back) to this RabbitCore to enable rapid development of secure Web browser interfaces and a hierarchical file system.

## Design Advantages

- Ideal for network-enabling security & access systems, remote automation, data logging, and industrial controls when coupled with RabbitWeb, FAT File System and SSL software modules.
- Plenty of storage with safe secure firmware and data transfers.
- Complete microprocessor, on-board memory, royalty-free TCP/IP stack, and hundreds of sample programs reduces time-to-market by months.

RabbitCores mount directly on a user-designed motherboard and act as the controlling microprocessor for the user's system. RabbitCores can interface with all manner of CMOS-compatible digital devices through the user's motherboard. Programs are developed with our industry-proven Dynamic C® development system, a C-language environment that includes an editor, compiler, and in-circuit debugger (Dynamic C® is included in low-cost development kits). Efficient hardware and software integration facilitates rapid design and development. User programs can be compiled, executed, and debugged using Dynamic C and a programming cable—no in-circuit emulator is required. An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

## RabbitCore RCM3300 – RCM3310 Specifications

Features	RCM3300	RCM3310
<b>Microprocessor</b>	Rabbit 3000 @ 44.2 MHz	
<b>Ethernet Port</b>	10/100Base-T, RJ-45, 2 LEDs	
<b>Flash</b>	512K	
<b>SRAM</b>	512K program + 512K data	
<b>Extended Memory</b>	8 MB Serial Flash (chip)	4 MB Serial Flash (chip)
<b>Backup Battery</b>	Connection for user-supplied battery (to support RTC and SRAM)	
<b>LED Indicators</b>	4: ACT (activity), LINK (link), SF (serial flash) 3300/3310, PFM (Parallel Flash Memory) 3360/3370, USR (user-programmable)	
<b>General-Purpose I/O</b>	49 parallel digital I/O: 43 configurable / 3 fixed inputs / 3 fixed outputs	
<b>Additional Inputs</b>	2 Startup Mode, Reset In	
<b>Additional Outputs</b>	Status, Reset Out	
<b>Auxiliary I/O Bus</b>	8 data and 5 address (shared with I/O), plus I/O read-write	
<b>Serial Ports</b>	Five 3.3 V CMOS-compatible: <ul style="list-style-type: none"> <li>• 5 configurable as asynchronous (with IrDA),</li> <li>• 3 configurable as clocked serial (SPI)</li> <li>• 2 configurable as SDLC/HDLC</li> </ul> 1 asynchronous serial port dedicated for programming	
<b>Serial Rate</b>	Max. asynchronous baud rate = CLK/8	
<b>Slave Interface</b>	Slave port permits use as master or intelligent peripheral with master controller	
<b>Real-Time Clock</b>	Yes	
<b>Timers</b>	Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers	
<b>Watchdog/Supervisor</b>	Yes	
<b>Pulse-Width Modulators</b>	10-bit free-running counter and four pulse-width registers	
<b>Input Capture</b>	2-channel input capture can be used to time input signals from various port pins.	
<b>Quadrature Decoder</b>	2-channel quadrature decoder accepts inputs from external incremental encoder modules.	
<b>Power</b>	3.15–3.45 V DC, 350 mA @ 3.3 V	
<b>Operating Temp.</b>	–40°C to +70°C	
<b>Humidity</b>	5–95%, noncondensing	
<b>Connectors - Headers</b>	Two 2 x 17 (2 mm pitch), One 2 x 5, 1.27 mm programming	
<b>Board Size</b>	1.850" x 2.725" x 0.86" (47 x 69 x 22 mm)	
<b>Pricing (qty. 1/100/1000)</b>	\$119 / 98 / 83	\$99 / 81 / 69
Part Number	101-0691	101-0698
<b>RCM3300 Development Kit *</b>	\$399	
Part Number	U.S. 101-0704	Int'l 101-0705
<b>RabbitWeb Software Module</b>	\$159	\$149
Part Number	Shipped CD 101-0905	Download 101-0916
<b>FAT File System Module</b>	\$159	\$149
Part Number	Shipped CD 101-0896	Download 101-0895

\* **RCM3300 Development Kit** comes complete with:

- RCM3300 or RCM3360 RabbitCore
  - Prototyping Board
  - Serial cable for programming and debugging
  - Complete product documentation on CD
- Dynamic C® w/ royalty-free TCP/IP stack and source
  - Getting Started Instructions
  - AC adapter (U.S. only)

**SSL, RabbitWeb, and FAT File System software modules sold separately**

**[www.rabbitsemiconductor.com](http://www.rabbitsemiconductor.com)**