

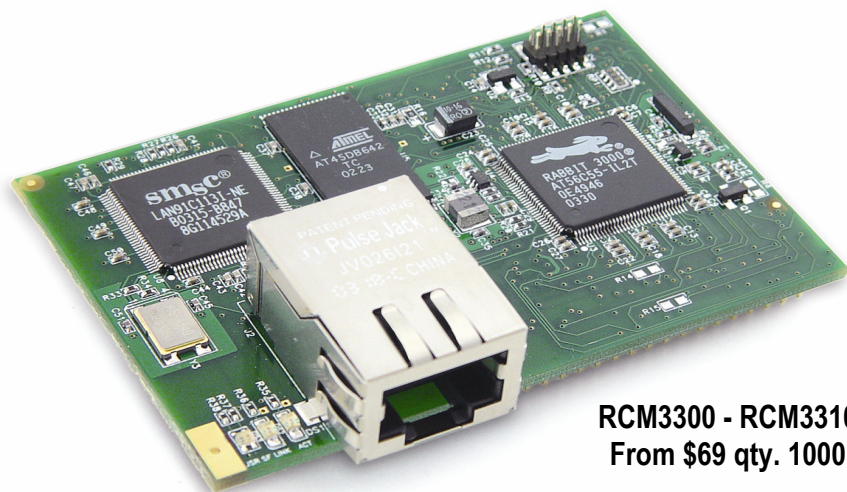


RCM3300 – RCM3310 RabbitCore™

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
Microprocessor	Rabbit 3000 @ 44.2 MHz	
Ethernet Port	10/100Base-T, RJ-45, 2 LEDs	
Flash	512K	
SRAM	512K program + 512K data	
Extended Memory	8 MB Serial Flash (chip)	4 MB Serial Flash (chip)
Backup Battery	Connection for user-supplied battery (to support RTC and SRAM)	
LED Indicators	4: ACT (activity), LINK (link), SF (serial flash) 3300/3310, PFM (Parallel Flash Memory) 3360/3370, USR (user-programmable)	
General-Purpose I/O	49 parallel digital I/O: 43 configurable / 3 fixed inputs / 3 fixed outputs	
Additional Inputs	2 Startup Mode, Reset In	
Additional Outputs	Status, Reset Out	
Auxiliary I/O Bus	8 data and 5 address (shared with I/O), plus I/O read-write	
Serial Ports	Five 3.3 V CMOS-compatible: • 5 configurable as asynchronous (with IrDA), • 3 configurable as clocked serial (SPI) • 2 configurable as SDLC/HDLC 1 asynchronous serial port dedicated for programming	
Serial Rate	Max. asynchronous baud rate = CLK/8	
Slave Interface	Slave port permits use as master or intelligent peripheral with master controller	
Real-Time Clock	Yes	
Timers	Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers	
Watchdog/Supervisor	Yes	
Pulse-Width Modulators	10-bit free-running counter and four pulse-width registers	
Input Capture	2-channel input capture can be used to time input signals from various port pins.	
Quadrature Decoder	2-channel quadrature decoder accepts inputs from external incremental encoder modules.	
Power	3.15–3.45 V DC, 350 mA @ 3.3 V	
Operating Temp.	–40°C to +70°C	
Humidity	5–95%, noncondensing	
Connectors - Headers	Two 2 x 17 (2 mm pitch), One 2 x 5, 1.27 mm programming	
Board Size	1.850" x 2.725" x 0.86" (47 x 69 x 22 mm)	
Pricing (qty. 1/100/1000)	\$119 / 98 / 83	\$99 / 81 / 69
Part Number	101-0691	101-0698
RCM33XX Development Kit *	\$399	
Part Number	U.S. 101-0704	Int'l 101-0705
RabbitWeb Software Module	\$159	\$149
Part Number	Shipped CD 101-0905	Download 101-0916
FAT File System Module	\$299	\$289
Part Number	Shipped CD 101-0896	Download 101-0895

* **RCM33XX 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