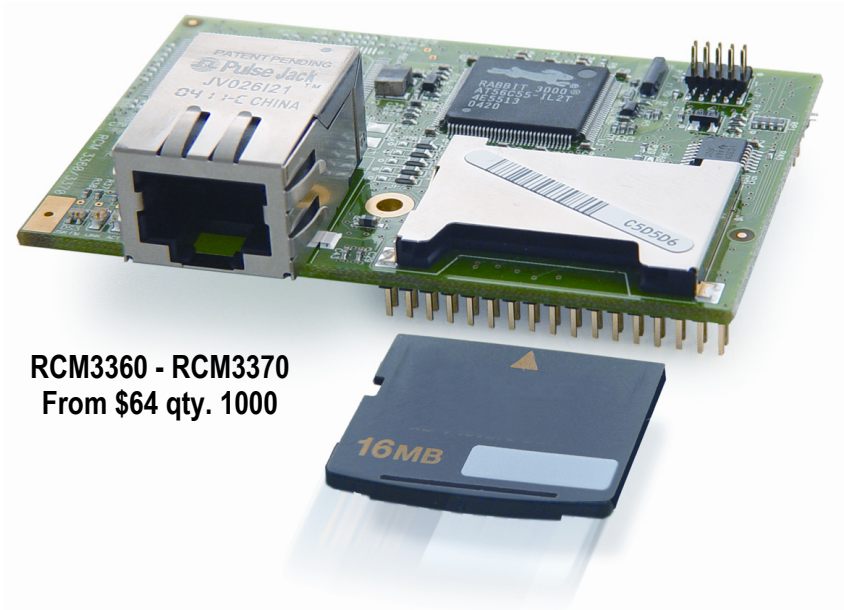
RCM3360 – RCM3370 RabbitCore™

Microprocessor Core Module

Models RCM3360, RCM3370

The RCM3360 - RCM3370 – Embedded Flexibility in Memory Cards

The RCM3360 and RCM3370 RabbitCore microprocessor core modules present a new form of embedded flexibility with removable memory cards. Supporting on-board 16 MB NAND Flash as well as memory cards of up to 128 MB, these RabbitCores are ideal for large data applications requiring low-power operation.



RCM3360 - RCM3370
From $64 qty. 1000

The RCM3360 and RCM3370 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.

*xD-Picture Card™ is a trademark of Fuji Photo Film Co., Olympus Corporation, and Toshiba Corporation.
**Rabbit-based systems do not implement the xD-Picture Card™ specification for data storage and are neither compatible nor compliant with xD-Picture Card™ card readers.

RabbitCore RCM3360 – RCM3370 Specifications

Features	RCM3360	RCM3370
Microprocessor	Rabbit 3000 @ 44.2 MHz	
Ethernet Port	10/100Base-T, RJ-45, 2 LEDs	
Flash	512K	
SRAM	512K program + 512K data	
Extended Memory	16 MB NAND Flash (chip) with xD card connector (supports up to 128 MB xD removable media)	xD card connector (supports up to 128 MB xD removable media)
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	52 parallel digital I/O: 44 configurable / 4 fixed inputs / 4 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	Six 3.3 V CMOS-compatible: • 6 configurable as asynchronous (with IrDA), • 4 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" × 2.725" × 0.86" (47 × 69 × 22 mm)	
Pricing (qty. 1/100/1000) Part Number	$105/ 89 / 75 101-0949	$95/ 79 / 69 101-0950
RCM3360 Development Kit * Part Number	$399 U.S. 101-0953	Int'l 101-0954
RabbitWeb Software Module Part Number	$159 Shipped CD 101-0905	$149 Download 101-0916
FAT File System Module Part Number	$159 Shipped CD 101-0979	$149 Download 101-0984

*** RCM3360 Development Kit** comes complete with:

- RCM3360 RabbitCore
- Prototyping Board
- Serial cable for programming and debugging
- 32 MB xD Picture Card™ (RCM3360/70 kit only)
- Dynamic C® w/ royalty-free TCP/IP stack and source
- Getting Started Instructions
- AC adapter (U.S. only)
- Complete product documentation on CD

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

www.rabbitsemiconductor.com

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