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RCM3305 RabbitCore®

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Low-Cost Development Kits

Includes everything you need to begin development



Description

The RCM3305 microprocessor core modules are an ideal solution for designers who want to rapidly develop serial Flash and 10/100Base-T Ethernet into their embedded application. The RCM3305 offer 4 – 8 MByte of serial Flash.

The RCM3305 come fully loaded: [Rabbit® 3000](#) @ 44.2 MHz clock, 10/100Base-T Ethernet connectivity, 512K Flash, 512K program execution SRAM, 512K data SRAM and up to 49 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 RCM3305 series takes microprocessor core modules to the next level. Software bundles can be added (see below) to this RabbitCore to enable rapid development of secure Web browser interfaces and a hierarchical file system.

Remote Download System Sample Program (Included in Dynamic C): Reliable Firmware Updates

- Easily performs reliable firmware updates through a web browser interface
- Store and run several different downloaded programs enabling remote deployment of a multi-functional target
- Monitors downloaded application and provides email alarms for program problems

Design Advantages

- Ideal for network-enabling security & access systems, remote automation, data logging, and industrial control when coupled with RabbitWeb™, FAT File System and SSL software modules
- Compact size simplifies integration
- 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 RCM3305 Specifications

Features	RCM3305	RCM3315	RCM3309	RCM3319
Microprocessor	Rabbit 3000 @ 44.2 MHz			
Ethernet Port	10/100Base-T, RJ-45, 3 LEDs	—	10/100Base-T, RJ-45, 3 LEDs	—
Flash Memory	512K			
Data SRAM	512K			
Program Execution SRAM	512K			
Extended Memory	8 MByte Serial Flash	4 MByte Serial Flash	8 MByte Serial Flash	4 MByte Serial Flash
Backup Battery	Connection for user-supplied battery (to support RTC and SRAM)			
General-Purpose I/O	49 parallel digital I/O			
Additional Inputs	2 Startup mode (2), reset in			
Additional Outputs	Status, reset out			
Auxiliary I/O Bus	Can be configured for 8 data lines and 6 address lines (shared with parallel I/O lines), plus I/O read/write			
Serial Ports	5 shared high-speed, CMOS-compatible ports:			
Serial Rate	Max. asynchronous baud rate = CLK/8			
Slave Interface	A slave port allows the core module to be used as an intelligent peripheral device slaved to a master processor, which may either be another Rabbit 3000 or any other type of processor.			
Real-Time Clock	Yes			
Timers	Ten 8-bit timers (6 cascadable), 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 275 mA @ 3.3 V		3.15-3.45 V DC 325 mA @ 3.3 V DC	3.15-3.45 V DC 190 mA @ 3.3 V DC
Operating Temp.	0°C to +70°C			-40°C to +85°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 mm × 69 mm × 22 mm)		
Pricing (qty. 1/100)	\$119 / \$98	\$99 / \$81	\$119 / \$98	\$99 / \$81
Part Number	20-101-1067	20-101-1068	20-101-1194	20-101-1195
Development Kit	101-1069			