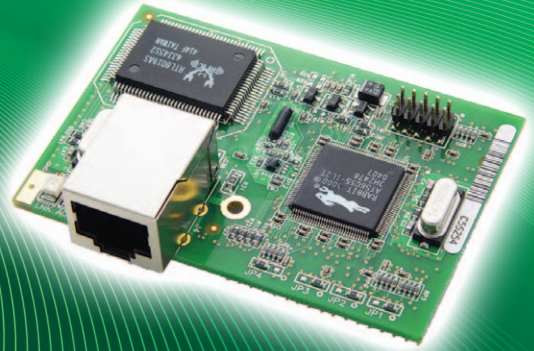


RabbitCore[®] RCM3000 Series

Microprocessor Core Module

Ideal for engineers who want to rapidly develop and implement embedded systems with fully integrated Ethernet connectivity.

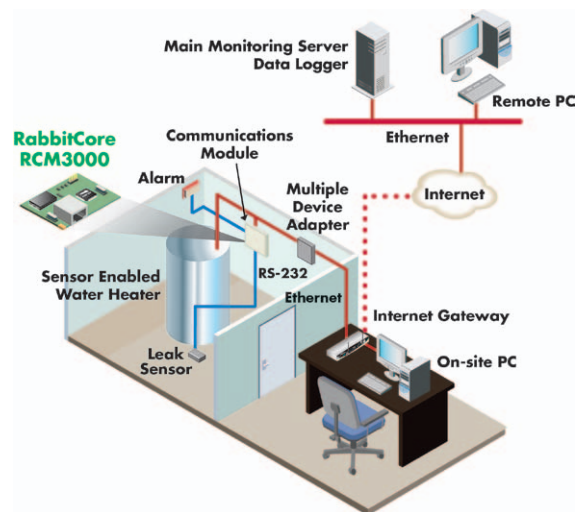


Overview

The RabbitCore RCM3000 series, featuring the Rabbit[®] 3000 microprocessor, boasts powerful features and integrated 10Base-T Ethernet to simplify integration. When paired with Dynamic C[®], the RCM3000 series allows engineers to add device intelligence and I/O control for many of today's embedded designs. Its small form factor and low-power modes make the RCM3000 series perfect for remote device applications. The RCM3000 series is pin-compatible with the RCM3100 series, facilitating cost-effective implementation of both Ethernet and non-Ethernet systems.

Rabbit hardware and Dynamic C are designed in a complementary fashion for maximum performance and ease of use in embedded systems. The additional software components in Dynamic C allow you to add functionality for embedded application customization.

Application Highlight



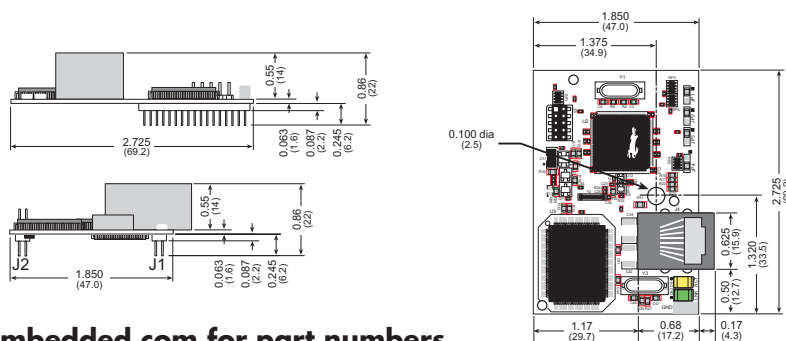
Potential Applications: Serial-to-Ethernet conversion, device web server applications, Ethernet connectivity with I/O and intelligence, device monitoring and data logging.

Features/Benefits

- Rabbit 3000 microprocessor at 30 MHz
- Up to 512K Flash/512K SRAM
- 52 digital I/O and 6 serial ports (IrDA, HDLC, asynch, SPI)
- 3.3V operation, low power "sleepy" modes (< 2mA)
- Small form factor
- Royalty-free TCP/IP stack in source code
- Low-cost embedded microprocessor module
- Security software add-on modules available



Specifications		RCM3000	RCM3010
Feature			
Microprocessor	Rabbit® 3000 at 30 MHz		
EMI Reduction	Spectrum spreader for reduced EMI (radiated emissions)		
Ethernet Port	10Base-T interface, RJ-45, 2 LEDs		
Flash Memory	512K (2 × 256K)	256K	
SRAM	512K	128K	
Backup Battery	Connection for user-supplied backup battery (to support RTC and SRAM)		
General-Purpose I/O	52 parallel digital I/O lines: • 44 configurable I/O • 4 fixed inputs • 4 fixed outputs		
Additional Digital Inputs	2 startup mode, reset in		
Additional Digital Outputs	Status, reset out		
Auxiliary I/O Bus	8 data lines and 6 address lines (shared with I/O) plus I/O read/write		
Serial Ports	6 shared high-speed, CMOS-compatible ports: • 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA) • 1 asynchronous serial port dedicated for programming • Support for MIR/SIR IrDA transceiver		
Serial Rate	Max. asynchronous baud rate = CLK/8		
Slave Interface	A slave port allows the RCM3000 to be used as a master or as an intelligent peripheral device with Rabbit-based or any other type of processor		
Real-Time Clock	Yes		
Timers	Ten 8-bit timers (6 cascable from the first), 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	3.15V to 3.45VDC 150 mA @ 3.3V		
Operating Temperature	−40° C to +70° C		
Humidity	5% to 95%, non-condensing		
Connectors (for connection to headers J4 and J5)	Two 2 × 17, 2 mm pitch		
Board Size	1.850" × 2.725" × 0.86" (47 mm × 69 mm × 22 mm)		
Pricing			
Price and Part Number	\$79; 20-101-0507	\$59; 20-101-0508	
Development Kit and Part Number	\$299; 101-0523	None	



Visit www.digiembedded.com for part numbers.

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