

RabbitCore[®] RCM3209 Series

Microprocessor Core Module

Ideal for engineers who want to rapidly develop and implement embedded systems with optional 10/100Base-T Ethernet connectivity.



Overview

Based on the Rabbit[®] 3000, the RabbitCore RCM3209 series provides the capability to integrate real-time control and Ethernet connectivity into your design. Engineers are freed from the limitations of serial port communications, allowing worldwide connectivity using low-cost networking hardware. The RCM3209 series replaces the previous RCM3200 versions as it adds the full industrial temperature spec.

The RCM3209 series and Dynamic C[®] are designed in a complementary fashion for maximum performance and ease-of-use. Rabbit's industry-proven Dynamic C is a C language environment that includes an editor, compiler and in-circuit debugger; no in-circuit emulator is required. An extensive library of drivers, sample programs and royalty-free TCP/IP stack with source code is included.

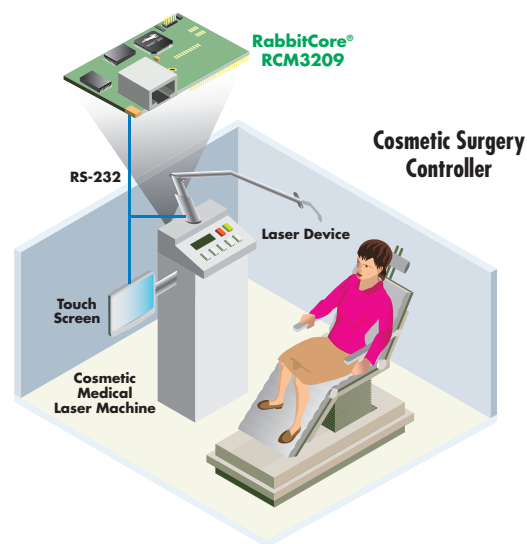
Development Kit

This low-cost development kit includes everything you need to get started

\$349



Application Highlight



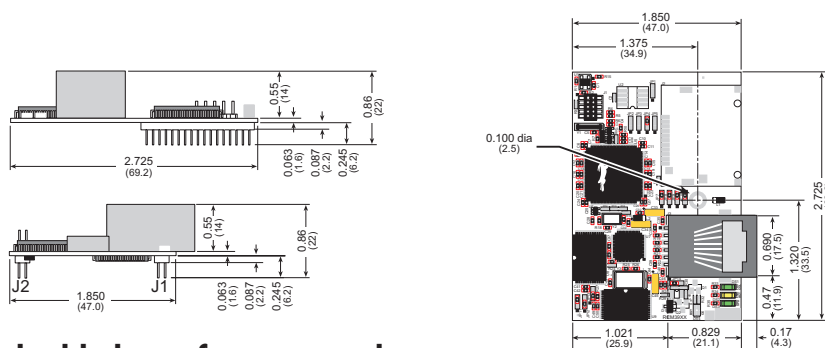
Potential Applications: Serial-to-Ethernet bridge, tank monitoring, automatic meter reading, remote monitoring and communications, remote energy management, security and surveillance.

Features/Benefits

- Rabbit 3000 microprocessor at 44 MHz
- Optional 10/100Base-T Ethernet
- 512K Flash / 256K SRAM / 512K Program Execution SRAM
- 52 digital I/O and 6 serial ports for multiple device connectivity options
- Software debugging directly on target hardware



Specifications		RCM3209	RCM3229
Feature			
Microprocessor	Rabbit® 3000 at 44 MHz		
EMI Reduction	Spectrum spreader for reduced EMI (radiated emissions)		
Ethernet Port	10/100Base-T, RJ-45, 3 LEDs	N/A	
Flash Memory	512K		
Data SRAM	256K		
Program Execution SRAM	512K		
Backup Battery	Connection for user-supplied backup battery (to support RTC and data SRAM)		
General-Purpose I/O	52 parallel digital I/O lines: • 44 configurable I/O • 4 fixed inputs • 4 fixed outputs		
Additional Inputs	Startup mode (2), reset in		
Additional Outputs	Status, reset out		
External 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	6 shared high-speed, CMOS-compatible ports: • All 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	Maximum asynchronous baud rate = CLK/8		
Slave Interface	A slave port allows the RCM3209/RCM3229 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 cascable), 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		
Power	3.15V to 3.45VDC 325 mA @ 3.3V	3.15V to 3.45VDC 190 mA @ 3.3V	
Quadrature Decoder	Edge connectors for interface with 52-pin mini PCI Express socket		
Operating Temperature	−40° C to +85° C		
Humidity	5% to 95%, non-condensing		
Connectors	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	\$89; 20-101-1179	\$79; 20-101-1217	
Development Kit and Part Number	\$349; 101-0552	None	



Visit www.digiembedded.com for part numbers.

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