



MICROPROCESSOR
CORE MODULE



RABBITCORE® RCM3209 SERIES

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

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.

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

RELATED PRODUCTS



RabbitCore®
RCM3000
Series



RabbitCore®
RCM3700
Series



RabbitCore®
RCM4300
Series

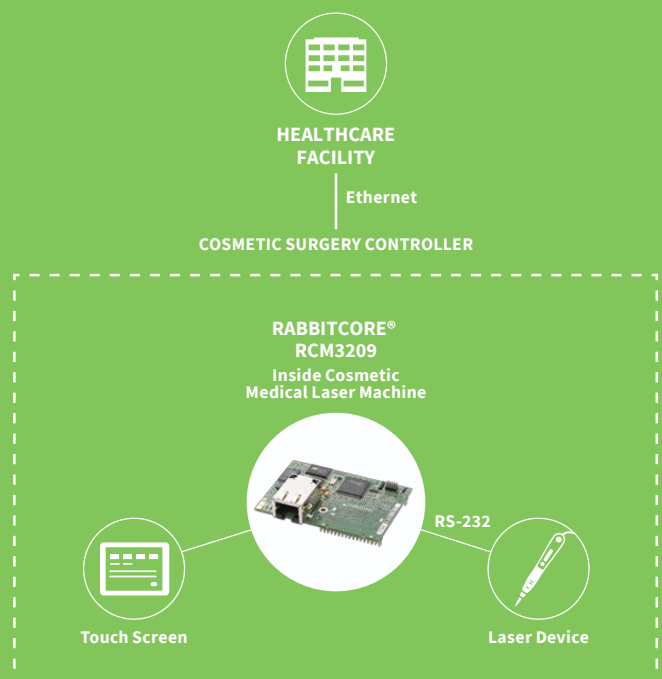


Dynamic C®

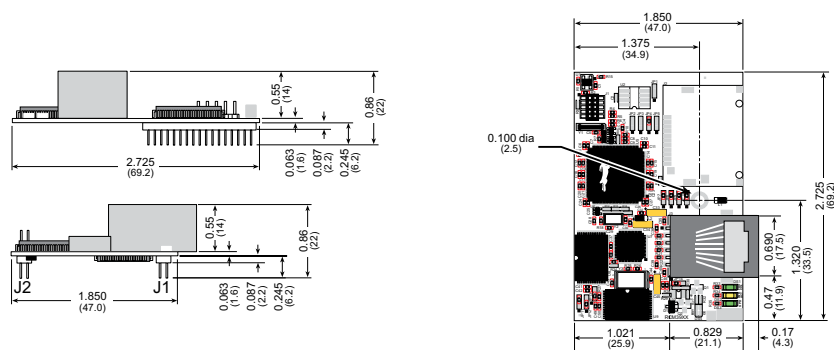


ConnectCore®
9P 9215

APPLICATION EXAMPLE



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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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 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				
POWER	3.15V to 3.45 VDC 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)				



PART NUMBERS	DESCRIPTION
20-101-1179	RCM3209
20-101-1217	RCM3229
101-0552	RCM3209 Development Kit Universal

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