# RCM2000 RabbitCore™
Microprocessor Core Module
Models RCM2000, RCM2010, RCM2020

Measuring just 2.30" x 1.90" (58 x 48 mm), the RCM2000 RabbitCore is a compact and powerful microprocessor core module that has all the basics for your board design. The RCM2000 provides I/O, memory, and other features that make bringing the power of the Rabbit 2000 microprocessor to your application easy. The RCM2000 comes in three available models and includes 40 general-purpose I/O, 4 CMOS-compatible serial ports, five 8-bit timers and one 10-bit timer with two match registers, and a fast number-crunching clock. Flash and SRAM are onboard, providing a development-ready memory interface.

Features

- Low-cost, high-memory, high I/O
- 2.3" x 1.9" x 0.5"
- Up to 512K SRAM
- 256K Flash
- 40 general-purpose I/O
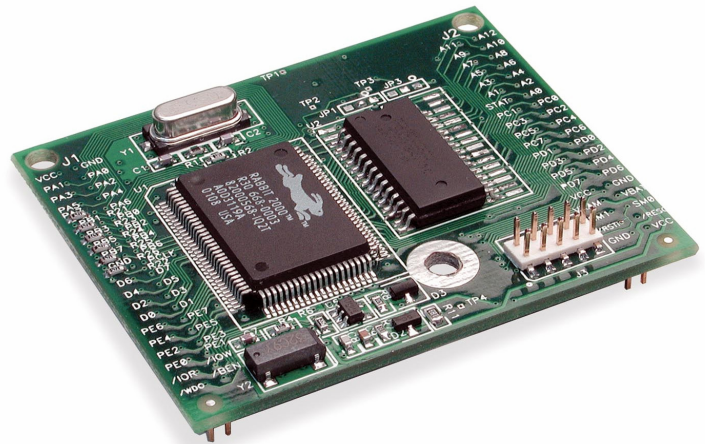
Designing with RabbitCores

The RabbitCore family of microprocessor core modules is designed to facilitate rapid development and implementation of embedded systems. RabbitCores are powered by high-performance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the Dynamic C® development system. The RabbitCore mounts on a user-designed motherboard and acts as the controlling microprocessor for the user's system. Small in size, but packed with powerful features, these core modules give designers a complete package for control and communication.

Programming the RCM2000

Programs are developed using Z·World's industry-proven Dynamic C software development system. An extensive library of drivers and sample programs is provided.

RCM2000 RabbitCore Specifications

Feature	RCM2000	RCM2010	RCM2020
Microprocessor	Rabbit 2000 at 25.8 MHz		Rabbit 2000 at 18.432 MHz
Flash	256K		
SRAM	512K	128K	
Backup Battery	Connection for user-supplied battery (to support RTC and SRAM)		
General Purpose I/O	40 parallel I/O includes • 26 configurable I/O • 8 fixed inputs • 6 fixed outputs (grouped in five 8-bit ports and shared with serial ports		
Additional Inputs	2 Startup Mode, Reset In		
Additional Outputs	Status, Clock, Watchdog, Reset Out		
Memory I/O	13 address, 8 data. I/O Read-Write, Buffer Enable		
Serial Ports	Four 5 V CMOS-compatible, 2 configurable as clocked ports		
Serial Rate	Max. burst rate = CLK/32 Max. sustained rate = burst/2		
Connectors	Two 2 x 20, 2mm IDC headers		
Slave Interface	Slave port permits use as master of intelligent peripheral with Rabbit-based or other master controller		
Real-Time Clock	Yes		
Timers	Five 8-bit timers (four cascadable from the first		
Watchdog/Supervisor	Yes		
Power	4.75-5.25 V DC, 130 mA		4.75-5.25 V DC, 98 mA
Operating Temp.	-40C to +85C		
Humidity	5-95%, non-condensing		
Board Size	2.3" x 1.9" x 0.55" (58 x 48 x 14 mm)		
Pricing (qty. 1/100/1000 Part Number	$69 / 55 / 48 101-0404	$49 / 39 / 34 101-0405	$39 / 31 / 25 101-0383
Development Kit Part Number	$169 U.S. 101-0398		$169 Int'l 101-0399