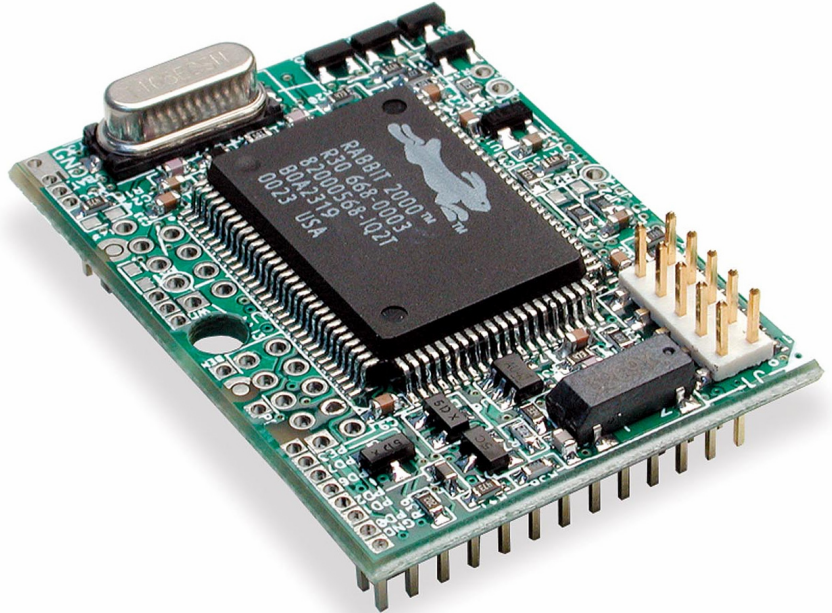




RCM2300 RabbitCore™

Microprocessor Core Module
Model RCM2300

The ultra-compact RCM2300 RabbitCore microprocessor core module measures a mere 1.60 x 1.15 inches (41 x 29 mm), simplifying integration and opening up a world of new design options for economical control products. The RCM2300 includes 22.1 MHz clock, 256K of Flash, 128K of SRAM, real-time clock, 29 general-purpose I/O, and 4 serial ports. The RCM2300 is also pin compatible with the RCM2200 Ethernet core module for future Ethernet implementation of user designs.



Features

- Most compact and low-cost RabbitCore
- 1.60" x 1.15" x 0.47"
- 128K SRAM
- 256K Flash
- 29 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 RCM2300

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

RabbitCore RCM2300 Specifications

Features	RCM2300
Microprocessor	Rabbit 2000T at 22.1 Mhz
Flash	256K
SRAM	128K
Backup Battery	Connection for user-supplied battery (to support RTC and SRAM)
General Purpose I/O	29 I/O include: <ul style="list-style-type: none"> • 17 configurable I/O • 8 fixed inputs • 4 fixed outputs (9 additional available via separate connections)
Additional Inputs	2 Startup Mode, Reset
Additional Outputs	Status, Reset
Memory I/O	4 address, 8 data, plus I/O Read-Write (extra address and Buffer Enable via separate connections)
Serial Ports	Four 5 V CMOS-compatible, 2 configurable, as clocked ports (1 clocked line available only on programming header)
Serial Rate	Max. burst rate = CLK/32 Max. sustained rate = burst/2
Connectors	Two 2 x 13, 2 mm IDC headers
Slave Interface	Slave port permits use as master or as intelligent peripheral with Rabbit-based or other master controller.
Real-Time Clock	Yes
Timers	Five 8-bit timers (four cascadable from the first) and one 10-bit timer with 2 match registers
Watchdog/Supervisor	Yes
Power	4.75-5.25 V DC, 108 mA
Operating Temp.	-40°C to +85°C
Humidity	5-95%, non-condensing
Board Size	1.60" x 1.15" x 0.55" (41 x 29 x 14 mm)
Pricing (qty. 1/100/1000) Part Number	\$42 / 33 / 29 101-0453
Development Kit Part Number	\$199 U.S. 101-0480 \$199 Int'l 101-0481