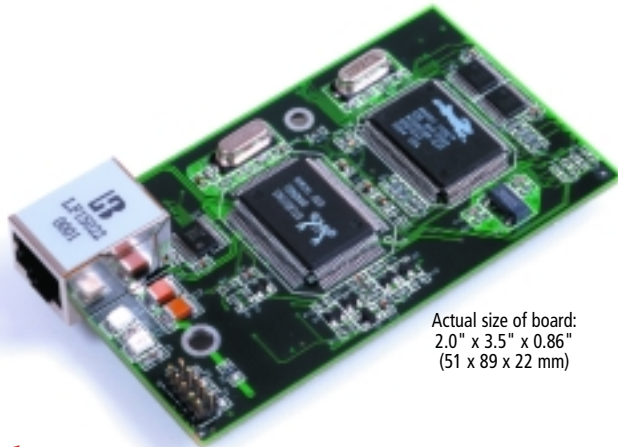
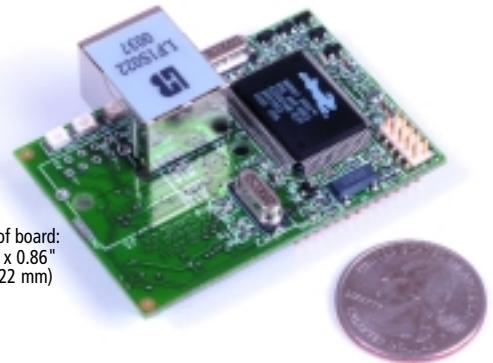


RabbitCore™ RCM2100/2200 Ethernet Core Modules



Actual size of board:
2.0" x 3.5" x 0.86"
(51 x 89 x 22 mm)



Actual size of board:
2.3" x 1.6" x 0.86"
(59 x 41 x 22 mm)

Features

- Powerful Rabbit 2000™ microprocessor
- Built-in 10Base-T port with RJ-45 jack for simplified LAN or Internet connectivity
- Models with or without Ethernet
- 256K–512K flash memory on board for program storage
- 128K–512K SRAM on board for data logging
- Compact size for simplified integration
- Applications developed with industry-proven Dynamic C® (included in Development Kit)
- Royalty-free TCP/IP stack with source

The RCM2100 and RCM2200 microprocessor core modules are designed to facilitate rapid development and implementation of embedded systems with integrated Ethernet connectivity. 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.

The integrated Ethernet port frees designers from the limitations of serial-port communications and control, while also permitting instant local or worldwide connectivity using low-cost networking hardware. Embedded systems using an Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet. RabbitCores also permit parallel development and cost-effective implementation of both Ethernet-enabled and non-Ethernet systems.

The RCM2100 series includes up to 512K of flash memory and 512K of SRAM, as well as buffered external memory-addressing capability. The RCM2100 modules are available with and without the integrated Ethernet feature. The 34 parallel user I/O lines (40 for non-Ethernet) shared with 4 serial ports make local control and communication a breeze.

The RCM2200 has 256K of flash memory and 128K of SRAM and also features some external memory-addressing capability. Two 26-pin connection headers provide up to 32 parallel user I/O lines shared with 3 serial ports. A fourth serial port and 3 additional I/O lines are also available on the programming header.

Low-Cost Development Kits

Jumpstart your evaluation and design efforts with our complete development kits. Kits include an RCM2100 or RCM2200 RabbitCore, prototyping board, DC power supply (U.S. only), Dynamic C® SE development system and complete documentation on CD-ROM, PC serial cable, and Getting Started manual.



Specifications & Features

FEATURE	RCM2100 Series				RCM2200 Module
	RCM2100	RCM2110	RCM2120	RCM2130	RCM2200
Microprocessor	Rabbit 2000™ running at 22.1 MHz				
SRAM	512K x 8	128K x 8	512K x 8	128K x 8	128K x 8
Flash Memory	512K x 8	256K x 8	512K x 8	256K x 8	256K x 8
Ethernet Port	10Base-T, RJ-45 2 LEDs	10Base-T, RJ-45 2 LEDs	None	None	10Base-T, RJ-45, 2 LEDs (raw signals available)
General Purpose I/O	34 parallel I/O lines <ul style="list-style-type: none"> • 20 configurable I/O • 8 fixed inputs • 6 fixed outputs 		40 parallel I/O lines <ul style="list-style-type: none"> • 26 configurable I/O • 8 fixed inputs • 6 fixed outputs 		26 parallel I/O lines <ul style="list-style-type: none"> • 16 configurable I/O • 7 fixed inputs • 3 fixed outputs
(grouped in five 8-bit ports and shared with serial ports)					
Additional Inputs	2 Startup Mode, Reset In				2 Startup Mode, Reset
Additional Outputs	Status, Clock, Watchdog Out, Reset Out				Status, Reset
Memory I/O	13 buffered address lines, 8 buffered data lines, plus I/O Read-Write and Buffer Enable				4 address lines, 8 data lines, plus I/O Read-Write
Serial Ports	4 CMOS-compatible serial ports Maximum asynchronous baud rate: 345,600 bps Maximum synchronous baud rate: 2.7648 Mbps 2 ports configurable as clocked ports*				
Slave Interface	Slave port permits use as master or as intelligent peripheral with Rabbit-based or other master controller				
Timers	Five 8-bit timers and one 10-bit timer with 2 match registers (5 timers cascadable in pairs)				
Time/Date Clock	Yes (date/hour/minute/second)				
Watchdog/Supervisor	Yes				
Backup Battery	Backup battery circuitry and connection for user-supplied battery				
Supply Voltage	4.75–5.25 VDC				
Supply Current	140 mA @ 5 VDC				134 mA @ 5 VDC
Board Size	2.0" x 3.5" x 0.86" (51 x 89 x 22 mm)	2.0" x 3.5" x 0.5" (51 x 89 x 13 mm)		2.3" x 1.6" x 0.86" (59 x 41 x 22 mm)	
Environmental	-40°C to +70°C, 5–95% humidity, noncondensing				
Pricing (qty. 1)	\$89	\$59	\$69	\$49	\$49
Development Kit	\$279				\$239

* 1 clocked port on RCM2200 available only on programming header

order online @ www.zworld.com



2900 Spafford Street
Davis, CA 95616

T: 530.757.3737

F: 530.757.5141

E: zworld@zworld.com