



RabbitCore™ RCM3200 Microprocessor Core Module



Designing with RabbitCores:

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 Dynamics C® development system. Embedded systems using the 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.

Programming the RCM3200:

Programs are developed using our industry-proven Dynamics C software development system (SE version included in low-cost development kits). An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

RabbitCore RCM3200:

- **Board Size:** 2.73" x 1.85" x 0.86" (69mm x 47mm x 22mm) (2.73" x 1.85" x 0.48" (69mm x 47mm x 12mm) for 3220)
- **Power:** 3.15 ~ 3.45VDC
- **Current:** 255 mA @ 3.3V
- **Processor:** Rabbit 3000 @ 44.2MHz
- **General Purpose I/O:** 52 digital I/O (44 configurable I/O, 4 fixed inputs, and 4 fixed outputs)
- **Additional Digital Inputs:** 2 Startup Mode, Reset in
- **Additional Digital Outputs:** Status, Reset out
- **Real-Time Clock:** Yes • **SRAM:** 512K program + 256K data
- **Flash:** 512K
- **Timers:** Ten 8-bit timers (6 cascaded from the first) and one 10-bit timer with 2 match registers
- **Serial Ports:** 6 CMOS-compatible; 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA), 1 asynchronous clocked serial port dedicated for programming, Support for MIR/SIR IrDA transceiver
- **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller

Additional Features: Ethernet Port for 3200 series only, Watchdog/Supervisor, Pulse-Width Modulators, Quadrature Decoder and Backup Battery

RabbitCore RCM3200 Low-Cost Development Kit

Digi-Key Part No. 316-1023-ND (101-0552) Only **\$391.63**

Kit includes RCM3200 RabbitCore, Getting Started manual, DC power supply (U.S. only), prototyping board, Serial Cable for Programming and debugging, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3200	316-1097-ND	99.87	20-101-0520
RCM3220	316-1098-ND	88.65	20-101-0522
RCM3209	316-1150-ND	99.87	20-101-1179
RCM3229	316-1146-ND	88.65	20-101-1217
1.27mm Programming Cable	316-1180-ND	28.05	20-101-0542

RabbitCore™ RCM3600 Core Module



Features:

- 3.3V operation
- Powerful Rabbit 3000 processor
- 256K (3610) ~ 512K (3600) Flash Memory
- 128K (3610) ~ 512K (3600) SRAM
- 33 digital I/O • 4 Serial Ports
- Size: 2.11" x 1.23" (54mm x 31mm)

Design Advantages:

- Low Cost Solution
- Ready made platform for easy design implementation
- Compact Size
- Dynamic C® development environment for real-time developing and debugging
- Fast performance for math, Logic, and I/O

RabbitCore RCM3600 Development Kit

Digi-Key Part Number 316-1037-ND (101-0678) Only **\$335.53**

The RCM3600 Development Kit includes RCM3600 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3600	316-1102-ND	54.99	20-101-0672
RCM3610	316-1103-ND	50.50	20-101-0673

RabbitCore™ RCM3700 Core Module



Features:

- 512K Flash (256K for 3710) • 512K SRAM (128K for 3710 and 256K for 3720) • 3.3V operation • Powerful Rabbit 3000 processor • 33 digital I/O • 4 Serial Ports

Design Advantages:

- Low Cost Solution
- Ready Made platform for easy design implementation
- Compact Size
- Dynamic C® development environment for real-time developing and debugging
- Fast performance for math, Logic, and I/O

RabbitCore RCM3700 Development Kit

Digi-Key Part Number 316-1038-ND (101-0680) Only **\$335.53**

The RCM3700 Development Kit includes RCM3700 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

RabbitCore RCM3720 Development Kit

Digi-Key Part Number 316-1065-ND (101-0963) Only **\$223.31**

The RCM3720 Development Kit includes RCM3720 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3700	316-1104-ND	66.21	20-101-0674
RCM3710	316-1105-ND	63.96	20-101-0675
RCM3720	316-1107-ND	61.72	20-101-0961

PowerCore Flex™ 3800/3810



With available on-board power supply, analog features, and the fastest Rabbit 3000 microprocessor the PowerCore bridges the gap between microcontrollers and single board computers.

With the introduction of the PowerCore, Rabbit Semiconductor has added over 1000 new core modules to its product line through FLEXible manufacturing.

Featuring customizable options such as microprocessor speed, power supply, memory, analog features and Ethernet capability, PowerCore Rabbit Core Modules can be customized at the Rabbit Semiconductor website via the user-friendly On-Line Flex Configurator Tool.

Features:

- Clock speed up to 51.6MHz
- On-board Power Supply (10VAC ~ 60VAC, 8VDC ~ 43VDC)
- On-board analog (AC Crossover, ramp generator, temperature sensor)
- 512K Flash
- Maximum 1MB SRAM (512K code/512K data)
- Maximum 1MB Serial Flash
- 39 general-purpose I/O
- 10/100 Compatible Ethernet

PowerCore RCM3800 Development Kit

Digi-Key Part Number 316-1070-ND (101-1016)

Only **\$189.65**

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore RCM3810 Development Kit

Digi-Key Part Number 316-1071-ND (101-1018)

Only **\$154.86**

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore Flex Kit

Digi-Key Part Number 316-1064-ND (101-0956)

Only **\$111.09**

Includes our Dynamic C development system and complete documentation on CD-ROM, a demo board with 4 LEDs, 4 switches and buzzer, serial cable for programming and debugging, Getting Started manual and AC adapter

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
LCD/Keypad Panel Mount	316-1116-ND	111.09	20-101-0541

Free shipping on orders over \$200 CAD! All prices in Canadian dollars and include duty and brokerage fees.

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1-800-344-4539 • www.digikey.ca • 218-681-6674 • Fax: 218-681-3380