



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 **\$169.00**

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 **\$143.75**

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 **\$99.00**

Includes our Dynamic C development system and complete documentation on CD-ROM, a demo board with 4 LED's, 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. |
|------------------------|-------------------|------------|-----------------|
| RCM3800 | 316-1108-ND | 124.13 | 20-101-1006 |
| RCM3810 | 316-1109-ND | 70.00 | 20-101-1007 |
| LCD/Keypad Panel Mount | 316-1116-ND | 99.00 | 20-101-0541 |

RabbitCore™ 4000/4100/4200 Series



The Rabbit 4000 is fast, running at up to 60MHz, with compact code and direct software support for 16-bit memory devices. It operates at 3.3V I/O standard or can be set to 1.8V for lower power. The Rabbit 4000 boasts 6 serial ports with IrDA, 40+ digital I/O, quadrature decoder, PWM outputs, pulse capture and measurement capabilities, battery-backable real-time clock, glueless memory and I/O interfacing and ultra-low power modes.

The RCM4100 series is the first of the next generation core modules to take advantage of the new Rabbit 4000 microprocessor.

RCM4100 Features: • Rabbit 4000 microprocessor @ 58.98MHz (29.49MHz for 4110) • 512K Flash • 512K data SRAM (256K for 4110) • Program-Execution Fast SRAM: 512K (None for 4110) • 40 parallel I/O (29 for 4100) • 6 high-speed, CMOS-compatible Ports • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Power: 125mA (typical) @ 3.3V (65mA (typical) @ 3.3V for 4110) • Board Size: 1.41" x 1.88" x 0.49" (36 x 48 x 12mm)

The RCM4200 RabbitCore modules are equipped with 10/100 Ethernet connectivity, combined with 4Mbytes or 8Mbytes serial flash memory storage for intensive communication and data logging applications. At the heart of the RCM4200 is the Rabbit 4000 microprocessor which features a clock speed of up to 58.98MHz. The rabbit 4000 boasts and additional 500+ new operational code instructions that increases the processing efficiency, from its predecessor the Rabbit 3000. The RCM4200 RabbitCore modules are easily interchangeable with other RCM4xxx based products due to electrical and functional compatibility.

RCM4200 Features: • Rabbit 4000 microprocessor @ 58.98MHz (29.49MHz for 4210) • Spectrum spreader for reduced EMI • Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs • 512K (8-bit) SRAM and Flash • Serial Flash Memory: 8Mbytes (4 Mbytes for 4210) • 25 parallel digital I/O (35 parallel digital for 4210) • A/D: 12 bits • Up to 4 serial ports (up to 5 for 4210) • Real Time Clock • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Watchdog/Supervisor • Power: 240mA (typical) @ 3.3V (200mA @ 3.3V for 4210) • Board Size: 1.84" x 2.42" x 0.84" (47 x 61 x 21mm)

All Development Kits include a core module, a development board with prototyping are, Dynamic C 10 development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

| Description | Digi-Key Part No. | Price Each | Rabbit Part No. |
|-------------------------|-------------------|------------|-----------------|
| CPU RABBIT 4000 | 316-1078-ND | 12.50 | 20-668-0024 |
| RCM4100 | 316-1121-ND | 75.00 | 20-101-1105 |
| RCM4120 | 316-1122-ND | 64.00 | 20-101-1154 |
| RCM4200 | 316-1124-ND | 109.43 | 20-101-1131 |
| RCM4210 | 316-1125-ND | 99.00 | 20-101-1132 |
| RCM4010 Development Kit | 316-1077-ND | 239.00 | 101-1114 |
| RCM4100 Development Kit | 316-1123-ND | 229.00 | 101-1157 |
| RCM4110 Development Kit | 316-1076-ND | 199.00 | 101-1101 |
| RCM4200 Development Kit | 316-1126-ND | 269.00 | 101-1155 |

RabbitCore™ 3360/3365/3375 Series



The RCM3360/RCM3365/RCM3375 modules present a new form of embedded flexibility with removable xD-Picture Cards™. Supporting on-board 16 MB NAND Flash as well as memory cards of up to 128 MB, this RabbitCore is ideal for large data applications requiring low-power operation. (xD-picture card socket only for 3375 Series)

Features:

• Powerful Rabbit 3000 microprocessor @ 44.2MHz • Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs • 3.3V operation • 512K Flash/512K Program + 512K data SRAM • 49 digital I/O and 5 serial ports • 52 digital I/O and 6 serial ports • Board Size: 1.85" x 2.73" x 0.86" (47 x 69 x 22mm)

RabbitCore RCM3365 Development Kit

Digi-Key Part No. 316-1074-ND (101-1053) Only **\$399.00**

The RCM3365 Development Kit includes RCM3365 microprocessor core module, development board with prototyping area, 2 CDs – Dynamic C and Dynamic FAT File System module – with complete product documentation on disk, 32MB xD-Picture Card™, Screwdriver and Ethernet Cable, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

RabbitSys™ Development Kit

Digi-Key Part No. 316-1130-ND (101-1088) Only **\$406.98**

Features: • Remote Firmware and Application Update Mechanism • Remote Debugging and Monitoring Systems • Software-Crash Recovery System • Enhanced Memory Protection Features • Event Handler and Corrective Action Operations • Console and Preloaded Device Drivers

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM3365 RabbitSys Core Module, Prototyping Board, xD-Picture Card, Dynamic C 9.3x to support RabbitSys, RabbitSys CD, FAT File v.2.11, Cables and Accessories, Getting Started Manual and Power Supply (U.S./Canada only).

| Description | Digi-Key Part No. | Price Each | Rabbit Part No. |
|-------------|-------------------|------------|-----------------|
| RCM3365 | 316-1111-ND | 105.00 | 20-101-1051 |
| RCM3375 | 316-1112-ND | 98.00 | 20-101-1055 |

RabbitCore™ 3305/3310/3315 Series



Features: • 3.3V Operation • Powerful Rabbit 3000A microprocessor • 512K Flash/512K SRAM • 8 Mbyte Serial Flash for 3305 and 4 Mbyte for 3315 • 49 digital I/O • 5 Serial Ports

Design Advantages: • Ready-Made Platforms for quick design to market • Compact size • Dynamic C® development environment for real-time developing and debugging • Fast performance for math, logic and I/O

RabbitCore RCM3305 Development Kit

Digi-Key Part No. 316-1129-ND (101-1069) Only **\$399.00**

The RCM3305 Development Kit includes RCM3305 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

| Description | Digi-Key Part No. | Price Each | Rabbit Part No. |
|-------------|-------------------|------------|-----------------|
| RCM3305 | 316-1113-ND | 119.00 | 20-101-1067 |
| RCM3315 | 316-1114-ND | 99.00 | 20-101-1068 |

RabbitCore™ 3750 Series



The RCM3750 RabbitCore mounts directly onto a user-designed motherboard using a single dual-row IDC header and can interface with all CMOS-compatible digital devices. Digital I/O (shared with serial ports), power and other signals are directly routed to the motherboard. Built-in low EMI features, including a clock spectrum spreader, practically eliminate EMI problems, which helps OEMs pass European CE and other regulatory RF emissions tests.

Features:

• Rabbit 3000 microprocessor at 22.1MHz • 512K Flash and SRAM • 1MB Serial Flash • 33 digital I/O (31 configurable I/O and 2 fixed outputs) • Four 3.3V CMOS-compatible Serial Ports • Real-Time Clock • Ten 8-bit timers • Watchdog/Supervisor • 4 PWM output channels • Input: 4.75 ~ 5.25VDC, 175mA @ 22.1MHz; 150mA @ 11.05MHz • Board Size: 2.95" x 1.20" x 0.89" (75 x 30 x 23mm)

RabbitCore RCM3750 Development Kit

Digi-Key Part No. 316-1117-ND (101-1049) Only **\$329.00**

The RCM3750 Development Kit includes RCM3750 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

| Description | Digi-Key Part No. | Price Each | Rabbit Part No. |
|-------------|-------------------|------------|-----------------|
| RCM3750 | 316-1110-ND | 74.00 | 20-101-1028 |

More Product Available Online: www.digkey.com

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