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RabbitFLEX™

Configurable Embedded Hardware

RabbitFLEX – From click to ship.
RabbitFLEX is a new patent-pending manufacturing process that accelerates embedded development by giving you the power to seamlessly design, build, and integrate custom-configurable embedded controllers right into your embedded applications.


[Large View](#)

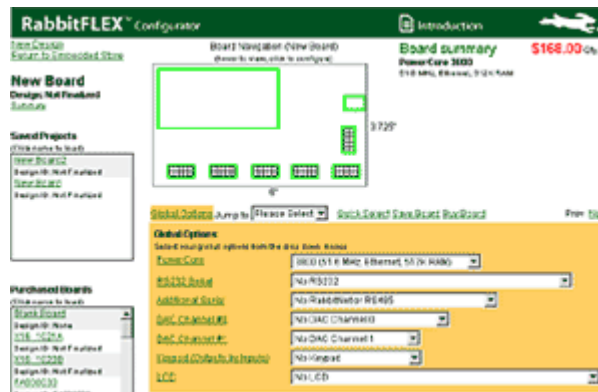
Get Started with RabbitFLEX

[— View RabbitFLEX Introduction](#)
[— Launch the Online Configurator](#)

Until now, engineers have been forced to choose between off-the-shelf single board computers or custom-designed embedded hardware. Both choices result in high engineering costs and extended development times which can add to the design constraints. RabbitFLEX eliminates these problems by providing a rapid design and manufacturing platform with zero non-recurring engineering costs. You pay only for what you need, and receive the finished product in days instead of months.

Key Features:

- Highly Configurable Platform
- Pre-engineered Circuit Options
- Fast Order Processing
- Supports Future Design Changes
- Accelerates Development Schedules
- Reduces Development Costs
- Lower Design Costs
- User-Friendly Web Interface



Design your custom RabbitFLEX board with the RabbitFLEX configurator.
Custom boards priced from \$149-\$279 USD.

Design Advantages:

- Ideal for customer-specific I/O configurations
- Pay for what your design really needs
- No NRE design model
- Web-based design tool

With the introduction of the RabbitFLEX platform, re-designs become a thing of the past. You can easily make custom-configured controller boards, all from the convenience of

Chat Live!

With Rabbit Sales



Documentation

- RabbitFLEX Data Sheet PDF (1.5M)
- RabbitFLEX User's Manual HTML | PDF (3.2M)
- Dynamic C User's Manual HTML | PDF (4.7M)
- Dynamic C TCP/IP User's Manual Vol. 1 HTML | PDF (2.8M)
- Dynamic C TCP/IP User's Manual Vol. 2 HTML | PDF (3.7M)

[More Documentation >>](#)

RabbitCore® Selector

- RabbitCore Selector (Beta)

Sample Programs

- Roadmap to Sample Programs HTML | PDF (687K)
- Roadmap to TCP/IP Sa Programs PDF (107K)

the web. RabbitFLEX capitalizes on a proprietary, fast-turn manufacturing process by providing an intuitive web interface for designing and configuring boards based on the precise needs of the project. Changes at any time in the future are easily addressed by simply modifying the original design and ordering the updated board configuration.

Whenever a RabbitFLEX order is placed, the real-time manufacturing line processes the board definition directly from the information associated with the web order. The board is then automatically built, tested, packaged, and shipped right to your door. All within a few days time – from click-to-ship. The RabbitFLEX process truly enables you to deliver custom embedded solutions in days instead of months. Only with RabbitFLEX does such an opportunity exist to sharply reduce development time and cost while bolstering efficiency and design quality. Powerful custom embedded solutions are now just a click away.

Boards developed in RabbitFLEX are programmed using our industry-proven Dynamic C® development software. With hundreds of included sample programs, a royalty free TCP/IP stack, and optional software modules, complete embedded solutions can reach the market in no time.

RabbitFlex

RabbitFlex offers a base level single-board computer with 40 configurable I/O, and is paired with either the PowerCore 3800 or the PowerCore 3810. For specifications please refer to the specification tables below. In the RabbitFLEX web interface the following options are available for placement.

- Choice of a PowerCore
 - 3800
 - 3810
- Serial Communications
 - (2) RS-232 (3-Wire)
 - (1) RS-232 (5 Wire)
 - (1) RS-485 (2-Wire)
 - (1) RS-422 (RabbitNet Expansion Port)
- Up to 16 A/D channels
- Up to 2 D/A channels
- Up to 40 configurable I/O for many combinations of: digital inputs, sinking outputs, sourcing outputs, line drivers
- Supports matrix keypad
- Supports LCD's with or without backlight and/or contrast control
- Supports Power Routing of 5 V on all user-selectable connectors. 3.45 V on three connectors



[Start your design by selecting a PowerCore model.](#)

RabbiFLEX Specifications

Features	With PowerCore 3800	With PowerCore 3810
Microprocessor	Rabbit 3000 @ 51.6 MHz	Rabbit 3000 @ 25.8 MHz
EMI Reduction	Spectrum Spreader for reduced EMI (radiated emissions)	
Ethernet Port	10Base-T, RJ-45, 2 LEDs	None
SRAM	512K program (fast SRAM) +512K data	256K data
Flash Memory (program)	512K	
Serial Flash	1 MB	None
	3 V lithium coin type 2032, 220 mA•h	

Backup Battery	(to support RTC and data SRAM)		
Configurable I/O	40 individually configurable I/O:		
	<ul style="list-style-type: none"> • All 40 configurable as digital inputs, sinking or sourcing digital outputs, line drivers, bidirectional logic, or as +5 V DC power points • Up to 24 configurable as +3.45 V DC power points • Up to 16 configurable as analog voltage or current inputs 		
	Analog Output		
	Up to two analog outputs available, one of which can be configured to drive an 8 Ω loudspeaker.		
Serial Ports	4 serial ports:		
	<ul style="list-style-type: none"> • Two RS-232 or one RS-232 (with CTS/RTS) • One RS-485 (terminated or un-terminated) or one RS-422 RabbitNet™ SPI master port • One serial port dedicated for programming/debug 		
	Serial Rate		
Connectors	Max. asynchronous rate = CLK/8 Max. synchronous rate = CLK/2		
	RJ-45 Connectors:		
	<ul style="list-style-type: none"> • One Ethernet and one RabbitNet (if options selected) 		
	Friction-lock connectors:		
Real-Time Clock	<ul style="list-style-type: none"> • Up to six polarized 2 × 5 terminals with 3 mm pitch, one 2 × 3 terminal with 3 mm pitch 		
	Programming Port:		
	<ul style="list-style-type: none"> • 2 × 5 IDC, 1.27 mm pitch 		
Timers	Yes		
Watchdog/Supervisor	Ten 8-bit timers (6 cascadable, 3 reserved for internal peripherals), One 10-bit timer with 2 match registers		
	Yes		
Input Power Options	DC	Unregulated 8-43 V DC (draws 13.3 W)	Unregulated 8-40 V DC (draws 6.7 W)
	AC	24-60 V AC with center-tapped transformer (draws 13.3 W)	19-57 V AC with center-tapped transformer (draws 6.7 W)
		12-36 V AC with untapped standard transformer (draws 13.3 W)	10-29 V AC with untapped standard transformer (draws 6.7 W)
	Operating Temp.	-40°C to +70°C	
Humidity	5-95%, noncondensing		
Standoffs/Spacers	Provision for 6		
Board Size	3.725" × 6.000" × 1.22" (95 mm × 152 mm × 31 mm)		



Ordering Info	Check Out 	Order by Phone! 
Int'l Customer Ordering Info		1.530.757.8400

Getting Started with RabbitFLEX is easy.

Start by visiting our online [introduction to RabbitFLEX](#). When you are ready to start building your boards, simply launch the [RabbitFLEX configurator](#) and complete your design. Be sure to include a RabbitFLEX Tool Kit with your order. This toolkit contains everything you need to complete your development package.

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Development Kits for New Users

Everything You Need to Begin Development!

Start your evaluation and design efforts today with a RabbitFLEX tool kit. 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 (U.S./Canada only). Note: RabbitFLEX boards are configured and ordered separately from the kit.

Description	Part Number	U.S. Pricing
RabbitFLEX Tool Kit	U.S. - 101-1098	\$199 qty. 1 Buy!
	Int'l - 101-1099	

Complete your system with a custom RabbitFLEX Board

[Launch](#)

The displayed price is for U.S. purchases made directly from Rabbit. Non U.S. and Channel prices may vary. All prices are in U.S. Dollars.

Product Options and Accessories

Description	Part Number	U.S. Pricing
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Programming/Development Tools

Dynamic C 9. Full-feature compiler, editor, and debugger (included in all development kits and tool kits).

[Details](#)

Add-On Software Modules. Source code and sample programs for SNMP, PPP, microC/OS-II, and more.

[Details](#)

RS-232-to-USB Converter Cable. Required for USB-only PCs.

20-151-0178 \$39 qty. 1

[Details](#)

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Reference Books

Description	Part Number	U.S. Pricing
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Embedded Systems Design using the Rabbit 3000 Microprocessor - *Interfacing, Networking, and Application Development* by Kamal Hyder & Bob Perrin. Authors Kamal Hyder and Bob Perrin are embedded engineers with years of experience and they offer a wealth of design details, "insider" tips, and techniques. This a reference you can't be without.

040-0003 \$49 qty. 1

[Details](#)

Embedded Ethernet and Internet Complete, *Designing and programming small devices for networking* by Jan Axelson. Complete

examples using RabbitCore modules (RCM3200) show how to implement networking applications.

040-0002 \$49 qty. 1 [Details](#)

MicroC/OS-II: The Real-Time Kernel by Jean J. Labrosse. The Real-Time Kernel contains over 200 pages of new examples and explanations of MicroC/OS real-time kernel.

040-0001 \$65 qty. 1 [Details](#)

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