

Rabbit® 3000

Low EMI, High Performance Microprocessor

High-performance, low-EMI microprocessor designed specifically for embedded control, communications and Ethernet connectivity.



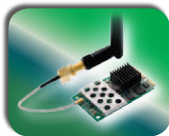
Overview

The Rabbit 3000 runs up to 55 MHz with compact code and direct software support for 1 MB of code/data space. Typically operating at 3.3 V (with 5 V tolerant I/O), the Rabbit 3000 boasts 6 serial ports with IrDA, 56+ digital I/O, quadrature decoder, PWM outputs, and pulse capture and measurement capabilities.

This high performance microprocessor also features a battery-backable real-time clock, glueless memory, I/O interfacing and ultra-low power modes. Four levels of interrupt priority allow fast response to real-time events. Its compact instruction set and high clock speeds give the Rabbit 3000 exceptionally fast math, logic and I/O performance.

Our Dynamic C® development environment provides an integrated C compiler with debugger and linker for efficient and powerful applications development.

Complete Solutions



Modules



SBCs

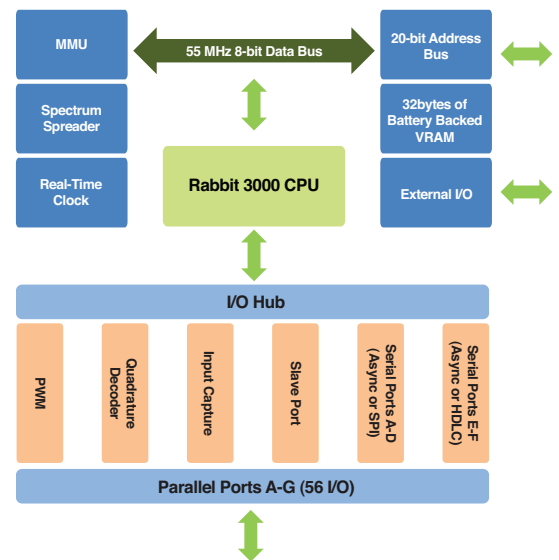


Development Kits

Dynamic C®

Supported Software Platforms

Application Highlight



Features/Benefits

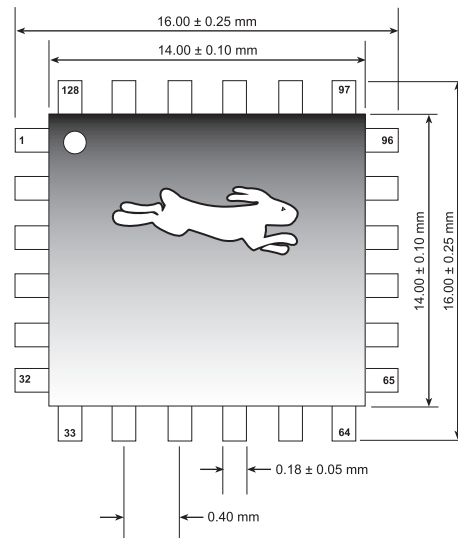
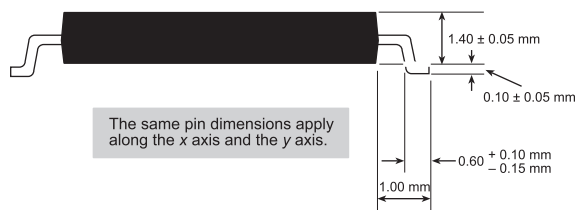
- 55 MHz max clock speed
- 56+ I/O lines and 6 CMOS-compatible serial ports
- Ten 8-bit timers and one 10-bit timer with 2 match registers
- Hardware and/or software support for TCP/IP, IrDA, SDLC/HDLC, Async, SPI, I²C
- Extended low-power "sleepy" modes
- Watchdog timer
- TCP/IP connectivity allows for programming and debugging Rabbit processor-based systems over intranets or the Internet



Specifications

Rabbit® 3000

Package	128-pin LQFP
Package Size	16 mm × 16 mm × 1.5 mm
Operating Voltage	1.8–3.6VDC
Operating Current	2 mA/MHz @ 3.3V
Operating Temperature	-55° C to +85° C
Maximum Clock Speed	55 MHz
Digital I/O	56+ (arranged in seven 8-bit ports)
Serial Ports	6 CMOS-compatible
Baud Rate	Clock speed/8 max. asynchronous
Address Bus	20-bit
Data Bus	8-bit
Timers	Ten 8-bit and one 10-bit with 2 match registers
Real-Time Clock	Yes, battery backable
RTC Oscillator Circuitry	External
Watchdog Timer/Supervisor	Yes
Clock Modes	1×, 2×, /2, /3, /4, /6, /8
Power-Down Modes	Sleepy (32 kHz) Ultra-Sleepy (16, 8, 2 kHz)
External I/O Bus	8 data, 8 address lines
Part Number (2 Pack)	20-101-1185
Part Number	20-668-0011



Visit www.digi.com for part numbers.

DIGI SERVICE AND SUPPORT - You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong one-year warranty. www.digi.com/support

Digi International
877-912-3444
952-912-3444
info@digi.com

Digi International France
+33-1-55-61-98-98
www.digi.fr

Digi International KK
+81-3-5428-0261
www.digi-intl.co.jp

Digi International (HK) Limited
+852-2833-1008
www.digi.cn



91001567
A1/1210

BUY ONLINE • www.digi.com

© 2005-2010 Digi International Inc. All rights reserved. Digi, Digi International, the Digi logo, the When Reliability Matters logo, Rabbit, RabbitCore and Dynamic C are trademarks or registered trademarks of Digi International Inc. in the United States and other countries worldwide. All other trademarks are the property of their respective owners. All information provided is subject to change without notice.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

DIGI:

[20-668-0011](#)