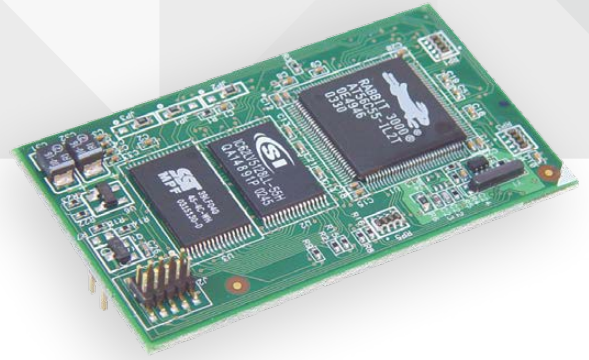




MICROPROCESSOR
CORE MODULE



RABBITCORE® RCM3600 SERIES

Extremely compact and low-cost Rabbit® 3000 microprocessor based core module designed for a wide variety of applications

The RabbitCore RCM3600 series is a perfect introduction into embedded control and monitoring. Its small size and ease of integration when paired with Dynamic C® allow engineers to develop a control and monitoring solution for many of today's applications. The RCM3600 mounts directly onto a user-designed motherboard with a single 2x20 dual row IDC header, interfacing with all types of CMOS-compatible digital devices. Built-in low EMI features, including a clock spectrum spreader, practically eliminate EMI problems, which helps with passing CE and RF emissions tests.

Rabbit hardware and Dynamic C are designed in a complementary fashion for maximum performance and ease of use in embedded systems. The additional software components in Dynamic C allow you to add functionality for customized embedded applications.

BENEFITS

- Rabbit 3000 microprocessor at 22 MHz
- Up to 512K Flash/512K SRAM
- 33 parallel digital I/O with configurable options
- 4 serial ports (IrDA, HDLC, async, SPI)
- 5 VDC input, 3.3VDC interface
- Compact footprint: 2.11" x 1.23" x 0.62" (54 mm x 31 mm x 16 mm)
- Ready-made platform for fast time-to-market - save up to 3 months of design integration time
- Low-cost embedded microprocessor module

APPLICATION EXAMPLE



RELATED PRODUCTS



RabbitCore®
RCM3100
Series



RabbitCore®
RCM3400
Series



RabbitCore®
RCM3700
Series



RabbitCore®
RCM3900
Series



Dynamic C®

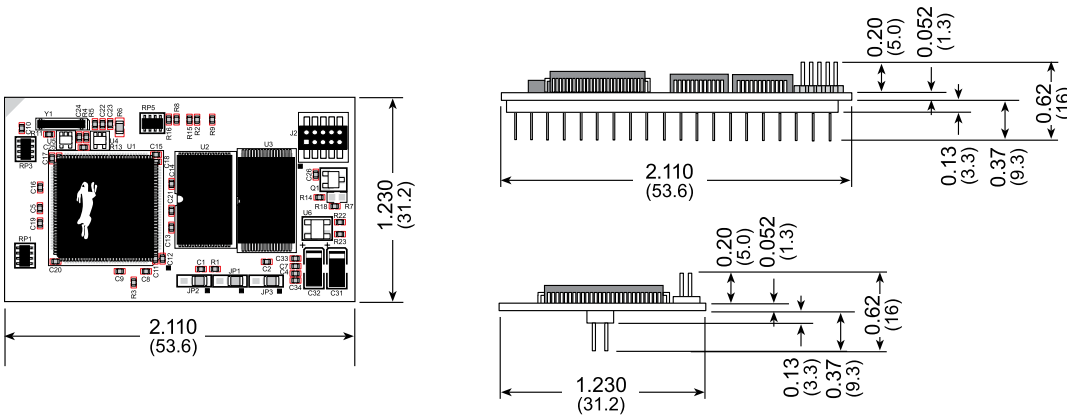
SPECIFICATIONS

RCM3600

RCM3610

FEATURE

MICROPROCESSOR	Rabbit® 3000 at 22 MHz	
FLASH MEMORY	512K	256K
SRAM	512K	128K
BACKUP BATTERY	Connection for user-supplied backup battery (to support RTC and SRAM)	
GENERAL-PURPOSE I/O	33 parallel digital I/O lines: <ul style="list-style-type: none"> • 31 configurable I/O • 2 fixed outputs 	
ADDITIONAL I/O	Reset	
AUXILIARY I/O BUS	Can be configured for 8 data lines and 5 address lines (shared with parallel I/O lines), plus I/O read/write	
SERIAL PORTS	Four 3.3V CMOS-compatible ports configurable as: <ul style="list-style-type: none"> • 4 asynchronous serial ports (with IrDA) or • 3 clocked serial ports (SPI) plus 1 HDLC (with IrDA) or • 1 clocked serial port (SPI) plus 2 HDLC serial ports (with IrDA) 	
SERIAL RATE	Maximum asynchronous baud rate = CLK/8	
SLAVE INTERFACE	A slave port allows the RCM3600 to be used as an intelligent peripheral device slaved to a master processor, which may either be another Rabbit 3000 or any other type of processor	
REAL-TIME CLOCK	Yes	
TIMERS	Ten 8-bit timers (6 cascadable), one 10-bit timer with 2 match registers	
WATCHDOG/SUPERVISOR	Yes	
PULSE-WIDTH MODULATORS	4 PWM output channels with 10-bit free-running counter and priority interrupts	
INPUT CAPTURE/QUADATURE DECODER	2-channel input capture can be used to time input signals from various port pins <ul style="list-style-type: none"> • 1 quadrature decoder unit accepts inputs from external incremental encoder modules or • 1 quadrature decoder unit shared with 2 PWM channels 	
POWER	5V ±0.25 VDC 60 mA @ 22.1 MHz, 5V; 38 mA @ 11.06 MHz, 5V	
OPERATING TEMPERATURE	-40° C to +85° C	
HUMIDITY	5% to 95%, non-condensing	
CONNECTORS	One 2 × 20, 0.1" pitch	
BOARD SIZE	1.23" × 2.11" × 0.62" (31 mm × 54 mm × 16 mm)	



PART NUMBERS

DESCRIPTION

20-101-0672	RCM3600
20-101-0673	RCM3610

DIGI SERVICE AND SUPPORT / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit www.digi.com/support.

© 1996-2016 Digi International Inc. All rights reserved.
All trademarks are the property of their respective owners.

91001599
C2/816

DIGI INTERNATIONAL WORLDWIDE HQ
877-912-3444 / 952-912-3444 / www.digi.com

DIGI INTERNATIONAL FRANCE
+33-1-55-61-98-98 / www.digi.fr

DIGI INTERNATIONAL JAPAN
+81-3-5428-0261 / www.digi-intl.co.jp

DIGI INTERNATIONAL SINGAPORE
+65-6213-5380

DIGI INTERNATIONAL CHINA
+86-21-50492199 / www.digi.com.cn



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [System-On-Modules - SOM category](#):

Click to view products by [Digi International manufacturer](#):

Other Similar products are found below :

[COMX-CORE-310](#) [COMX-P4040-4G-ENP2](#) [PICOIMX6U10R1GBNI4G](#) [PICOIMX6U10R1GBNI4GBW](#) [RM-F6SO1-SMC](#) [MC27561-TIGER](#) [MC27561-LION](#) [AM335XBBLK-SYSTEM](#) [MC27561-FOX](#) [CC-WMX6UL-SMPL](#) [CB-52-PUS-110-SX](#) [BD63725BEFV-EVK-002](#) [A00150](#) [COMX_P4080](#) [A20-SOM-EVB](#) [RK3188-SOM](#) [RK3188-SOM-4GB](#) [PICOIMX6Q10R1GBNI4G](#) [PER-TAICX-A10-001](#) [PER-TAIX2-A10-2280](#) [EDL-mPCIe-MA2485](#) [SOM-5897C7-U0A1E](#) [SOM-5897C7-U8A1E](#) [SOM-6896C7-U2A1E](#) [Q7M311-N4200-4GB](#) [SCM180-Dual-2G_Industrial](#) [SCM180-Quad-4G-Industrial](#) [3354-HX-X38-RC](#) [5728-PJ-4AA-RC](#) [6455-JE-3X5-RC](#) [ET876-X7LV](#) [IFC6301-10-P2](#) [IFC6502-00-P1](#) [IFC67A1-00-P1](#) [iW-G27M-SCQM-4L008G-E032G-BIG](#) [iW-G33M-SCMQ-4L002G-E008G-BII](#) [CS-DEPTHAI-04](#) [MYC-C8MMQ6-8E2D-180-C](#) [MYC-Y7Z020-4E512D-766-I](#) [MYD-C4378-4E512D-100-I](#) [MOD5213-100IR](#) [MODM7AE70-100IR](#) [A20-SOM204-1GS16ME16G-MC](#) [AM3352-SOM-EVB](#) [BS2-IC](#) [102110278](#) [SLS16Y2_792C_256R_256N_0SF_I](#) [SLS12RT52_528C_0R_4QSPI_0SF_I](#) [SLS12RT52_528C_32R_16QSPI_0SF_I](#) [SLS12RT62_528C_0R_4QSPI_0SF_I](#)