

Preliminary

# MiniCore® RCM6700 Series

High Performance Embedded Device Servers

The MiniCore RCM6700 series provides an easily scalable cloud-computing infrastructure, extending remote device control and management with tremendous savings in development cost.



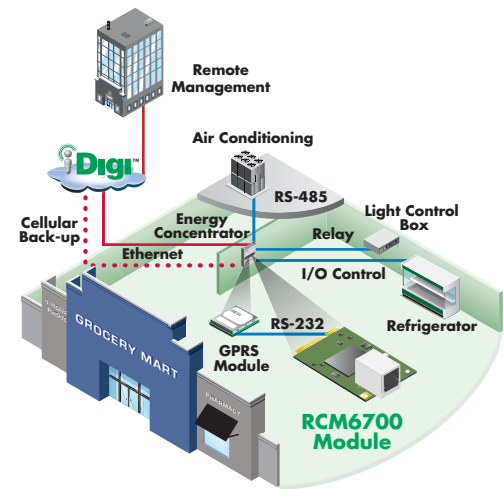
## Overview

The MiniCore RCM6700 series of core modules is ideal for today's smart energy initiatives as well as a host of other applications requiring networking and device control. With plenty of configurable I/O and multiple serial ports, the RCM6700 provides connectivity and control to numerous devices, allowing for greater design flexibility without sacrificing features and cost.

Rabbit's integrated hardware and software solution allows the RCM6700 series to be fully programmable within Dynamic C®, an ANSI C compliant development environment. Complete samples and libraries are included to dramatically reduce development time from months to weeks. The iDigi™ platform eases the burden of device deployment by providing complete remote monitoring and control, thereby eliminating server maintenance and costly on-site visits.

To evaluate and learn more about the MiniCore RCM6700, please visit [www.rabbit.com/products/rcm6700/](http://www.rabbit.com/products/rcm6700/).

## Application Highlight



**Potential Applications:** Smart Metering, Energy Management, Building Automation & Security, Point-of-Sale, Medical, Motor Control

## Features and Benefits

- Rabbit® 6000 running up to 200 MHz
- 10/100 Ethernet and pin-compatible with MiniCore 802.11b/g wireless modules
- 1 MB of internal RAM for program storage
- Up to 4 MB of serial Flash for datalogging or web page storage
- Flexible Interface Module (FIM) provides protocol support for CANbus or SD/SDIO
- iDigi platform provides cost-effective cloud computing for remote device management
- Seamless migration to chip level design

## Development Kit

The RCM6700 Development Kit includes everything you need to get started

Delmation Products BV  
info@delmation.nl  
www.delmation.nl  
Tel: +31 (0)79 342 2041



[www.rabbit.com](http://www.rabbit.com)

# MiniCore® RCM6700 Specifications

| Features                            | RCM6700  | RCM6710  | RCM6750                                 | RCM6760  |
|-------------------------------------|--|--|---|--|
| Microprocessor                      | Rabbit® 6000 up to 200 MHz   |  |   |  |
| Network Interface                   | 10/100Base-T<br>(Ethernet signals only)  | 10/100Base-T<br>RJ-45 connector                            | 10/100Base-T<br>(Ethernet signals only) | 10/100Base-T<br>RJ-45 connector                            |
| Flash Memory (Code and File system) | 1 MB serial Flash  |  | 4 MB serial Flash                       |  |
| Internal SRAM (Code and Data)       | 1 MB   |  |   |  |
| External SRAM (Data Only)           | None   |  | 1 MB                                    |  |
| Battery-Backable SRAM               | 32 KB  |  |   |  |
| Flexible Interface Module(FIM)      | 400 MHz DRP165X CPU<br>1k program/192 bytes data RAM   |  |   |  |
| Mass Storage                        | On-board serial Flash  |  |   |  |
| General-Purpose I/O                 | Up to 32 parallel digital I/O  |  |   |  |
| Serial Ports                        | 6 high-speed, CMOS compatible ports, 4 configurable as clocked serial (SPI)  |  |   |  |
| Serial Rate                         | Maximum asynchronous baud rate = CLK/8   |  |   |  |
| Real-Time Clock                     | Yes  |  |   |  |
| Timers                              | Ten 8-bit timers (6 cascadable from the first) , one 10-bit timer with 2 match registers                             |  |   |  |
| Watchdog/Supervisor                 | Yes  |  |   |  |
| Pulse Width Modulators              | 4 channels synchronized PWM with 10-bit counter<br>4 channels variable-phase or synchronized PWM with 16-bit counter |  |   |  |
| Quadrature Decoder                  | 2-channel quadrature decoder accepts inputs from external incremental encoder modules                                |  |   |  |
| Input Capture                       | 2-channel input capture can be used to time input signals from various port pins                                     |  |   |  |
| Power                               | 70 mA @3.3V without Ethernet<br>200 mA @3.3V with Ethernet while transmitting  |  |   |  |
| Operating Temperature               | -40° C to +85° C   |  |   |  |
| Supported Protocols                 | HTTP, HTTPS, SSLv3, DHCP, UDP, TCP, SNMP, Telnet, FTP, TFTP, SMTP, POP3  |  |   |  |
| Humidity                            | 5% to 95%, non-condensing  |  |   |  |
| Connectors - Headers                | 52-pin Mini PCI Express  | 52-pin Mini PCI Express<br>RJ-45 10/100Base-T<br>connector | 52-pin Mini PCI Express                 | 52-pin Mini PCI Express<br>RJ-45 10/100Base-T<br>connector |
| Part Number                         | 20-101-1318  | 20-101-1319  | 20-101-1320                             | 20-101-1321  |
| Standard Development Kit            | 101-1327   | -  | -                                       | -  |
| Deluxe Development Kit              | 101-1326   | -  | -                                       | -  |

Delmation Products BV  
 info@delmation.nl  
 www.delmation.nl  
 Tel: +31 (0)79 342 2041



Rabbit® 2900 Spafford Street Davis, CA 95618 USA Tel 1.888.411.7228 Tel 530.757.8400 Fax 530.757.8402

©2010 Rabbit. All rights reserved. Rabbit is a Digi International brand. Rabbit, Dynamic C, MiniCore and iDigi 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.

91001616  
A1/410