

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.

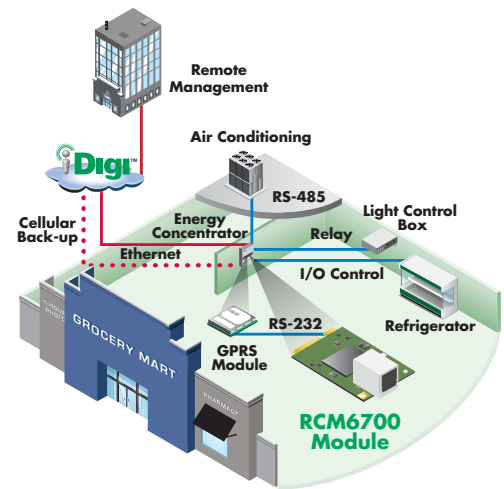


Overview

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.

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



MiniCore® RCM6700 Specifications

Features	RCM6700	RCM6710	RCM6750	RCM6760
Microprocessor	Rabbit® 6000 up to 200 MHz			
Network Interface	10/100Base-T (Ethernet signals only)	10/100Base-T RJ-45 connector	10/100Base-T (Ethernet signals only)	10/100Base-T 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 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 configureable 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 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 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 RJ-45 10/100Base-T connector	52-pin Mini PCI Express	52-pin Mini PCI Express RJ-45 10/100Base-T connector



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