MiniCore® RCM6700 Series

High Performance Embedded Device Servers

An easily scalable cloud-computing infrastructure, extending remote device control and management with tremendous savings in development cost.



Overview

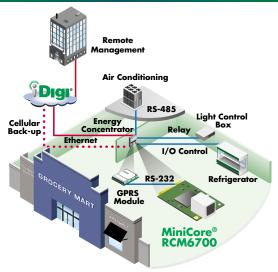
The ultra-compact MiniCore RCM6700 is ideal for today's smart energy initiatives as well as other applications that require a cost effective web-enabled device server. The RCM6700 series provides up to 6 serial ports, configurable I/O and control features such as PWM. Furthermore, the RCM 6700 series offers a much greater feature set then comparable device servers, while at a lower cost.

The RCM6700 series is fully programmable, taking advantage of processor peripherals. The programming environment, Dynamic C, is an ANSI C compatible development environment that provides a royalty free TCP/IP stack and Wi-Fi support. Various protocol support such as ZigBee, Modbus and BACnet are also available to help reduce development costs and time-to-market.

In additon to processor and protocol support, Dynamic C supports the iDigi® platform. The iDigi platform simplifies device deployment by allowing devices to easily pass through firewalls, eliminating server maintainance and costly on-site visits. The iDigi platform supports remote firmware updates and data storage for greater device control and monitoring.



Application Highlight



Potential Applications: Smart metering, energy management, building automation & security, point-of-sale, medical, motor control

Features/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 data logging 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
- 5X greater throughput performance



Specifications	RCM6700	RCM6710	RCM6750	RCM6760
Features				
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			rial Flash
Internal SRAM (Code and Data)	1 MB			
Battery-Backable SRAM	32 KB (1	Internal)	32 KB (Internal), 512 KB (External)	
Flexible Interface Module(FIM)	400 MHz DRPIC165X 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			
I²C	1 channel, standard (100 Kbits/s) and (400 Kbits/s) clock modes			
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 - with Ethernet	210 mA @ 3.3V	250 mA @ 3.3V	250 mA @ 3.3V	260 mA @ 3.3V
Power - without Ethernet	120 mA @ 3.3V	130 mA @ 3.3V	130 mA @ 3.3V	140 mA @ 3.3V
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
Board Size	1.20" x 2.00" x 0.12" (30 mm x 51 mm x 3 mm)	1.20" x 2.00" x 0.70" (30 mm x 51 mm x 18 mm)	1.20" x 2.00" x 0.27" (30 mm x 51 mm x 7 mm)	1.20" x 2.00" x 0.73" (30 mm x 51 mm x 19 mm)
Part Number	20-101-1318	20-101-1319	20-101-1320	20-101-1321
Standard Development Kit	101-1327	N/A	N/A	N/A
Deluxe Development Kit	101-1326	N/A	N/A	N/A

Visit www.digi.com for part numbers.

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