



ULTRA-COMPACT  
WI-FI MODULE



# MINICORE<sup>®</sup> RCM5700 SERIES

A low-cost, ultra-compact, pin-compatible Ethernet control and communications solution for your embedded design

The MiniCore RCM5700 series offers an integrated software and hardware platform that can shorten your design cycle from years to months. RCM5750 and RCM5760 allow datalogging capabilities with increased memory options.

With six serial ports, four configurable as SPI, the RCM5700 series can easily embed into any existing or new design and is pin-compatible with current and future MiniCore products,

such as MiniCores offering Wi-Fi 802.11b/g. The embedded web server offers an added level of control and monitoring for today's intensive applications.

## BENEFITS

- 10/100Base-T Ethernet
- Up to 640 KB SRAM for data, 1 MB Flash memory for program storage, 2 MB serial Flash for mass storage
- Up to 32 GPIO lines and 6 serial ports
- Serial to Ethernet bridge
- Embedded web server, Remote Firmware Update, open source code and royalty-free
- Cost-competitive embedded solution
- Quick time-to-market

## RELATED PRODUCTS



Rabbit MiniCore<sup>®</sup> RCM6700



Rabbit MiniCore<sup>®</sup> RCM6600W



RabbitCore<sup>®</sup> RCM3000 Series



Dynamic C<sup>®</sup>



ConnectCard<sup>™</sup> for i.MX28

## APPLICATION EXAMPLE



REMOTE SERVER

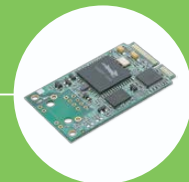
Ethernet



CONCENTRATOR BOX WITH RCM5700 INSIDE

### STORE AUTOMATION

MINICORE<sup>®</sup> RCM5700



RS-485



Air Conditioning

RS-232



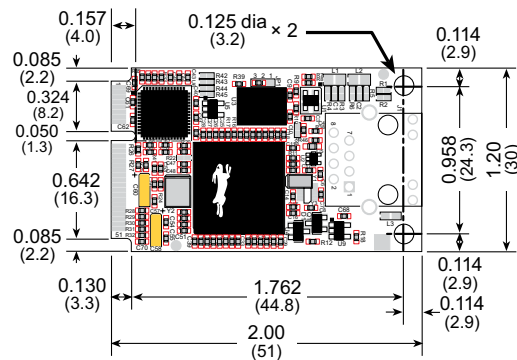
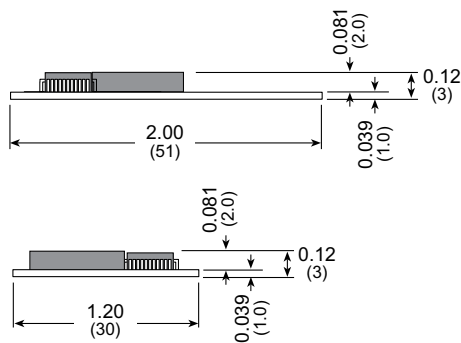
Lighting Control

RS-232



Refrigeration

SPECIFICATIONS	RCM5700	RCM5710	RCM5750	RCM5760
<b>FEATURES</b>				
<b>MICROPROCESSOR</b>	Rabbit® 5000 at 50 MHz			
<b>EMI REDUCTION</b>	10/100Base-T (Ethernet signals only)	10/100Base-T w/RJ-45 connector	10/100Base-T (Ethernet signals only)	10/100Base-T w/RJ-45 connector
<b>FLASH MEMORY (CODE)</b>	1 MB parallel Flash			
<b>SRAM (DATA)</b>	128K internal to Rabbit 5000		128K internal to Rabbit 5000; 512K external Fast SRAM	
<b>BATTERY BACKABLE SRAM (DATA)</b>	None			
<b>MASS STORAGE OPTION</b>	None		2 MB serial Flash	
<b>BACKUP BATTERY</b>	Connection for user-supplied backup battery (to be used for RTC)		None	
<b>GENERAL PURPOSE I/O</b>	Up to 32 parallel digital I/O			
<b>SERIAL PORTS</b>	6 high-speed, CMOS-compatible ports: • All 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC • 1 asynchronous clocked serial port shared with programming port			
<b>SERIAL RATE</b>	Max. async = CLK/8, Max. sync = CLK/2			
<b>SLAVE INTERFACE</b>	Slave port allows the RCM5700 to be used as an intelligent peripheral device slaved to a master processor			
<b>REAL-TIME CLOCK</b>	Yes		Yes (no battery backup)	
<b>TIMERS</b>	Ten 8-bit timers (6 cascadable from the first), one 10-bit timer with 2 match registers, and one 16-bit timer with 4 outputs and 8 set/reset registers			
<b>WATCHDOG/SUPERVISOR</b>	Yes			
<b>PULSE-WIDTH MODULATORS</b>	4 channels synchronized PWM with 10-bit counter 4 channels variable-phase or synchronized PWM with 16-bit counter			
<b>POWER</b>	3.15 - 3.45 VDC 70 mA @ 3.3V (typical — without Ethernet) 200 mA @ 3.3V (typical — with Ethernet)			
<b>OPERATING TEMPERATURE</b>	-40° C to +85° C			
<b>HUMIDITY</b>	5% to 95%, noncondensing			
<b>CONNECTORS</b>	Edge connectors for 52-pin Mini PCI Express socket	Edge connectors for 52-pin Mini PCI Express socket RJ-45 (Ethernet)	Edge connectors for 52-pin Mini PCI Express socket	Edge connectors for 52-pin Mini PCI Express socket, RJ-45 (Ethernet)
<b>BOARD SIZE</b>	1.20" × 2.00" × 0.12" (30 mm × 51 mm × 3mm)			



PART NUMBERS	DESCRIPTION
20-101-1235	RCM5700
20-101-1300	RCM5710
20-101-1306	RCM5750
20-101-1307	RCM5760

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