



# Specifications

## RCM6600W

## RCM6650W

Features		
Microprocessor	Rabbit® 6000 @ 162.5 MHz	
Network Peripherals	10/100Base-T (Ethernet Signals only)	
EMI Reduction	Spectrum spreader for reduced EMI (radiated emissions)	
Serial Flash Memory (Program)	1 MB	4 MB
SRAM	1 MB	
Backup Battery	Connection for user-supplied backup battery (to support RTC)	
General Purpose I/O	Up to 35 parallel digital I/O lines configurable with 4 layers of alternate functions, plus FIM (Flexible Interface Module) control	
Analog Inputs	0, 2 or 4-inputs shared with PE0,1 or PE2,3. 12 bit resolution, 11 bits performance at upto 1 Msample/sec (125 ksamples/sec for any one input with no CPU overhead). Input range 100mV to Vcc-100mV typical.	
Additional Inputs	Reset in	
Additional Outputs	Status, reset out	
External I/O Bus	Can be configured for 8 data lines 8 address lines (shared with parallel I/O lines), plus I/O read/write	
Serial Ports	6 high-speed, CMOS-compatible ports: All 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC 1 clocked serial port shared with programming port	
Serial Rate	Maximum asynchronous baud rate = CLK/8	
Slave Interface	Slave port allows the module to be used as an intelligent peripheral device slaved to a master processor	
Real-Time Clock	Yes	
Timers	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	
Watchdog/Supervisor	Yes	
Pulse-Width Modulator	4 channels synchronized PWM with 10-bit counter or 4 channels variable-phase or synchronized PWM with 16-bit counter	
Input Capture	2-channel input capture can be used to time input signals from various port pins	
Quadrature Decoder	2-channel quadrature decoder accepts inputs from external incremental encoder modules	
Power	3.15 V DC (min.) - 3.45 V DC (max.) 625 mA @ 3.3 V while transmitting/receiving 85 mA @ 3.3 V while not transmitting/receiving	
Operating Temperature	-30° C to +55° C	
Humidity	5% to 95%, non-condensing	
Connectors	Edge connectors for interface with 52-pin mini PCI Express socket	
Board Size	1.20 in × 2.00 in × 0.40 in (30 mm × 51 mm × 10 mm)	
Wi-Fi Specifications		
Typical Average Antenna Output Power	Americas, Japan 802.11b: 19 dBm; 802.11g: 15 dBm	
	Other Regions 802.11b: 18 dBm; 802.11g: 15 dBm	
Compliance	802.11b/g, 2.4 GHz	
MiniCore Kits		
Development Kit Part Number	Standard Development Kit 101-1325	Deluxe Development Kit 101-1324

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