

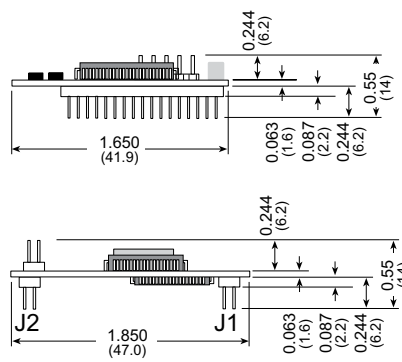
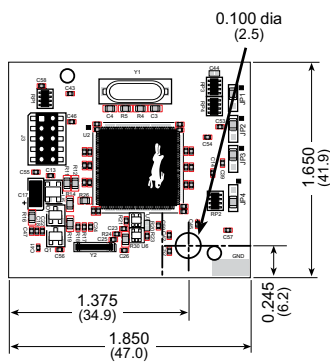
# SPECIFICATIONS

RCM3100

RCM3110

## FEATURE

MICROPROCESSOR	Rabbit 3000® at 30 MHz	
EMI REDUCTION	Spectrum spreader for reduced EMI (radiated emissions)	
FLASH MEMORY	512K (2 × 256K)	256K
SRAM	512K	128K
BACKUP BATTERY	Connection for user-supplied backup battery to support RTC and SRAM	
GENERAL-PURPOSE I/O	54 parallel digital I/O lines: <ul style="list-style-type: none"><li>• 46 configurable I/O</li><li>• 4 fixed inputs</li><li>• 4 fixed outputs</li></ul>	
ADDITIONAL DIGITAL INPUTS	2 startup mode, reset in	
ADDITIONAL DIGITAL OUTPUTS	Status, reset out	
AUXILIARY I/O BUS	8 data lines and 6 address lines (shared with I/O) plus I/O read/write	
SERIAL PORTS	6 shared high-speed, CMOS-compatible ports: <ul style="list-style-type: none"><li>• 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA)</li><li>• 1 asynchronous clocked serial port dedicated for programming</li><li>• Support for MIR/SIR IrDA transceiver</li></ul>	
SERIAL RATE	Max. asynchronous baud rate = CLK/8	
SLAVE INTERFACE	A slave port allows the RCM3100 to be used as a master or as an intelligent peripheral device with Rabbit-based or any other type of processor	
REAL-TIME CLOCK	Yes	
TIMERS	Ten 8-bit timers (6 cascable from the first), one 10-bit timer with 2 match registers	
WATCHDOG/SUPERVISOR	Yes	
PULSE-WIDTH MODULATORS	10-bit free-running counter and four pulse-width registers	
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	3.15V to 3.45 VDC 75 mA @ 3.3V	
OPERATING TEMPERATURE	-40° C to +85° C	
HUMIDITY	5% to 95%, non-condensing	
BOARD SIZE	1.850" × 1.650" × 0.55" (47 mm × 42 mm × 14 mm)	
PRODUCT WARRANTY	1 year	



## PART NUMBERS

## DESCRIPTION

20-101-0517	RCM3100. 512K Flash, 512K SRAM
20-101-0518	RCM3110. 256K Flash, 128K SRAM

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit [www.digi.com/support](http://www.digi.com/support).

© 1996-2019 Digi International Inc. All rights reserved.  
All trademarks are the property of their respective owners.

91001603  
C4/319

**DIGI INTERNATIONAL WORLDWIDE HQ**  
877-912-3444 / 952-912-3444 / [www.digi.com](http://www.digi.com)

**DIGI INTERNATIONAL GERMANY**  
+49-89-540-428-0

**DIGI INTERNATIONAL JAPAN**  
+81-3-5428-0261 / [www.digi-intl.co.jp](http://www.digi-intl.co.jp)

**DIGI INTERNATIONAL SINGAPORE**  
+65-6213-5380

**DIGI INTERNATIONAL CHINA**  
+86-21-50492199 / [www.digi.com.cn](http://www.digi.com.cn)

