DIG

MICROPROCESSOR **CORE MODULE**

DIGI RABBITCORE RCM3900 SERIES

Combines Fast Ethernet, extended temperature and mass storage to bring versatility to embedded design

The RabbitCore RCM3900 series of core modules has fast program execution SRAM and data SRAM, Flash memory and the circuitry necessary for reset and management of battery backup for its internal real-time clock and data SRAM. Two 34-pin headers bring out the Rabbit[®] 3000's I/O bus lines, parallel ports and serial ports.

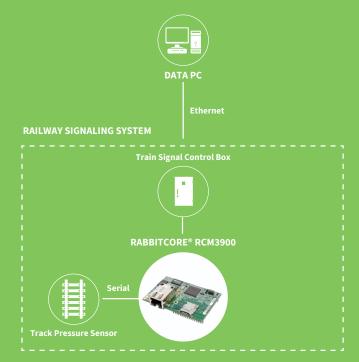
The RCM3900 modules' mass storage can use the Dynamic C® software FAT file system software component to store data and use the same directory file structure commonly used on PCs.

The microSD[™] Card can be hot-swapped to transfer data quickly using a standardized file system that can be read directly from the RCM3900 module, or removed and read using a microSD card reader.

BENEFITS

- Rabbit 3000 microprocessor at 44 MHz
- Extended operating temperature range: -20° C to +80° C
- 10/100Base-T Ethernet
- Up to 1 GB microSD hot-swappable storage
- Lower-risk design of embedded systems applications
- Software debugging directly on target hardware

APPLICATION EXAMPLE



RELATED PRODUCTS





RCM3209



RCM3000

bit MiniCore® RCM6700

Dynamic C[®]

SPECIFICATIONS	RCM3900 RCM3910
FEATURES	
MICROPROCESSOR	Rabbit® 3000 at 44 MHz
EMI REDUCTION	Spectrum spreader for reduced EMI (radiated emissions)
ETHERNET PORT	10/100Base-T, RJ-45, 3 LEDs
SRAM	512K program (fast SRAM) + 512K data
FLASH MEMORY (PROGRAM)	512K
MEMORY (DATA STORAGE)	32 MB (fixed NAND flash) + 128 MB − 1 GB microSD [™] Card 128 MB − 1 GB microSD Card
LED INDICATORS	LINK/ACT (link/activity) FDX/COL (full-duplex/ collisions) SPEED (on for 100Base-T Ethernet connection) CE/BSY (NAND flash enabled/user -programable.
BACKUP BATTERY	Connection for user-supplied backup battery (to support RTC and data SRAM)
GENERAL-PURPOSE I/O	52 parallel digital I/O lines: • 4 configurable I/O • 4 fixed inputs • 4 fixed outputs
ADDITIONAL INPUTS	Startup mode (2), rest in
ADDITIONAL OUTPUTS	Status, rest out
EXTERNAL I/O BUS	Can be configured for 8 lines and 5 address lines (shared with parallel I/O lines)
SERIAL PORTS	 Five 3.3V, CMOS-compatible ports (shared with I/O): All 5 configurable as asynchronous (with IrDA) 3 configurable as clocked serial (SPI) 2 configurable as SDL/HDLC 1 asynchronous serial port dedicated programming
SERIAL RATE	Maximum asynchronous baud rate = CLK/8
SLAVE INTERFACE	A slave port allows the RCM3900/RCM3910 to be used as an intelligent peripheral device slaved to a master processor, which may either be another Rabbit 3000 or any other type of processor
REAL-TIME CLOCK	Yes
TIMERS	Ten 8-bit timers (6 cascadable, 3 reserved for internal peripherals, one 10-bit timer with 2 match registers
WATCHDOG/SUPERVISOR	Yes
PULSE-WIDTH MODULATORS	4 PWM registers with 10-bit free-running counter and priority interrupts
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	3.15-3.45 VDC 325 mA @ 44.2 MHz, 3.3V
OPERATING TEMPERATURE	-20° C to +85° C
HUMIDITY	5% to 95%, non-condensing
CONNECTORS	Two 2 x 17, 2 mm pitch ; One microSD Card socket
BOARD SIZE	1.850" x 2.725" x 0.86" (47 mm x 69 mm x 22 mm)
PRODUCT WARRANTY	3 year

PART NUMBERS	DESCRIPTION
20-101-1196	RCM3900. Replacement for the RCM3365
20-101-1197	RCM3910. Replacement for the RCM3375

91001578

D3/319

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.

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

DIGI INTERNATIONAL WORLDWIDE HQ 877-912-3444 / 952-912-3444 / www.digi.com

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

DIGI INTERNATIONAL JAPAN +81-3-5428-0261 / www.digi-intl.co.jp DIGI INTERNATIONAL SINGAPORE +65-6213-5380

Here the second second



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for System-On-Modules - SOM category:

Click to view products by Digi International manufacturer:

Other Similar products are found below :

COMX-CORE-310 COMX-P4040-4G-ENP2 PICOIMX6U10R1GBNI4G PICOIMX6U10R1GBNI4GBW RM-F6SO1-SMC MC27561-TIGER MC27561-LION AM335XBBLK-SYSTEM MC27561-FOX CC-WMX6UL-SMPL CB-52-PUS-110-SX BD63725BEFV-EVK-002 A00150 COMX_P4080 A20-SOM-EVB RK3188-SOM RK3188-SOM-4GB PICOIMX6Q10R1GBNI4G PER-TAICX-A10-001 PER-TAIX2-A10-2280 EDL-mPCIe-MA2485 SOM-5897C7-U0A1E SOM-5897C7-U8A1E SOM-6896C7-U2A1E Q7M311-N4200-4GB SCM180-Dual-2G_Industrial SCM180-Quad-4G-Industrial 3354-HX-X38-RC 5728-PJ-4AA-RC 6455-JE-3X5-RC ET876-X7LV IFC6301-10-P2 IFC6502-00-P1 IFC67A1-00-P1 iW-G27M-SCQM-4L008G-E032G-BIG iW-G33M-SCMQ-4L002G-E008G-BII CS-DEPTHAI-04 MYC-C8MMQ6-8E2D-180-C MYC-Y7Z020-4E512D-766-I MYD-C4378-4E512D-100-I MOD5213-100IR MODM7AE70-100IR A20-SOM204-1GS16ME16G-MC AM3352-SOM-EVB BS2-IC 102110278 SLS16Y2_792C_256R_256N_0SF_I SLS12RT52_528C_0R_4QSPI_0SF_I SLS12RT52_528C_32R_16QSPI_0SF_I SLS12RT62_528C_0R_4QSPI_0SF_I