

RABBIT Ethernet and M2M Development Kits



SERIAL-TO-ETHERNET KIT

Ethernet designers now have a Serial-to-Ethernet Application Kit that is easy to use out of the box. The simple 3-Step Setup for transmitting data from a digital volt meter via a serial port to a TCP/IP stream enables even the newest user to quickly develop a Serial-to-Ethernet application. The kit features digital volt meter software libraries, sample programs and a menuing system, in addition to the Dynamic C integrated development environment. The digital volt meter application software provides a framework for users to start their design with minimal time and effort (volt meter not included in kit).

The Serial-to-Ethernet Application Kit includes a popular RCM3000 RabbitCore module featuring 10Base-T Ethernet and TCP/IP libraries with source code. Measuring only 2.73" x 1.85" (69 x 47mm) the RCM3000 operates at 3.3V (with 5 V-tolerant I/O) and features 6 serial ports and 52 digital I/O. Available in two models, the RCM3000 is equipped with up to 512K each of Flash and SRAM, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities. Two 34-pin connection headers provide 52 digital I/O shared with the 6 serial ports and alternate I/O features.

Features:

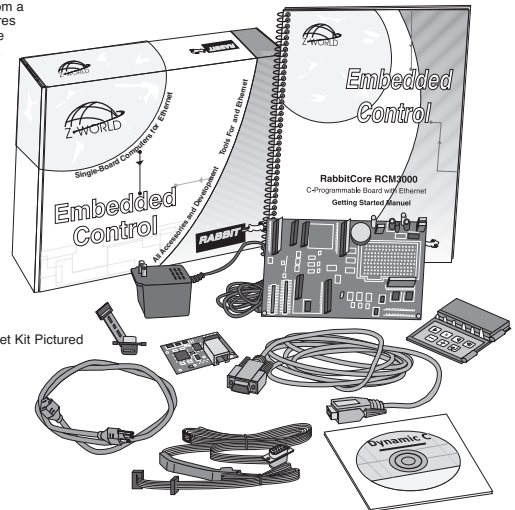
- Serial to Ethernet applications for:
- Digital Volt Meter reader
- Binary & hexadecimal ASCII
- Configuration menuing system
- Royalty-free TCP/IP stack with source code

Design Advantages:

- 3 Step setup
- Minimal Ethernet experience required
- Software compatible with other Rabbit-based products

Serial to Ethernet Application Kit Specifications:

Feature	Serial-to-Ethernet Application Kit
Core Module	RCM3010
Prototyping Board	Standard RCM3000 Prototyping Board
Ethernet	10Base-T, RJ-45
Serial Ports	1 RS-232 hardware defined (additional ports available on RCM3010)
Cables	DB9 Null Modem Cable
Software Compiler	DB9 Null Modem Cable, 10-pin @ DB9 Conversion Cable, Ethernet Crossover Cable Programming Cable
Software Library	Allow faster serial communications: 1 Mbit/s
Sample Programs	Transmit data from DVM and store on a PC
Menuing Systems	For Serial-to-Ethernet configuration
Manuals	Serial-to-Ethernet 3-Step Setup Sheet, RCM3000 Getting Started Manual, RCM3000 User Manual (on CD)
Display	122 x 32 Keypad/Display Unit with LCD menu system



Serial-to-Ethernet Kit Pictured

MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
694—101-0689		Serial-to-Ethernet Kit	297.96
694—101-0994		MultiPort Serial-to-Ethernet Kit (RCM3700 Core)	399.00

MACHINE TO MACHINE (M2M) APPLICATION KIT

M2M (machine-to-machine/mobile) brings together machine control with wireless communications. With 50 billion "machines" in the world, M2M allows a machine to be monitored or controlled from anywhere, anytime, using current wireless data technologies such as GSM, SMS (text messaging) and GPRS.

Rabbit Semiconductor's M2M Applications Kit provides all the tools necessary to sample and design communications between a Rabbit-based device to a GSM/GPRS-enabled device (e.g. GSM modem/phone, PDA phone). The libraries and sample programs allow for a GSM modem/phone to send SMS (text) messages to a RabbitCore module (RCM) that can interpret messages as commands and in turn can execute control functions. The RCM can also send/receive email from any PC, device or phone. A menu system allows for easy interface on the keypad/display, as well as reading text messages and email. The M2M Application Kit includes Z-World's Dynamic C software with royalty-free TCP/IP stack and PPP module.

Machine2ME Node

Is a configuration involving an Ethernet-enabled Rabbit-based device at the heart of a Machine equipped with a GSM modem. The Rabbit-based device acts as a server/node to other Ethernet devices. So a single Rabbit device with a wireless modem can control a number of Ethernet devices.

M2M Applications Kit Highlights:

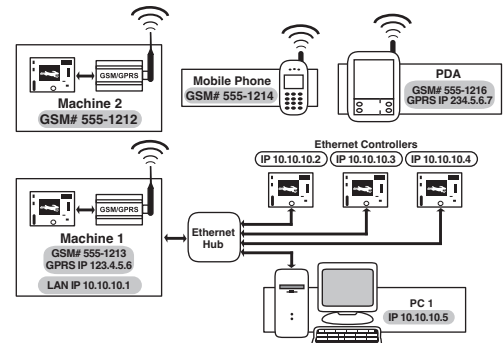
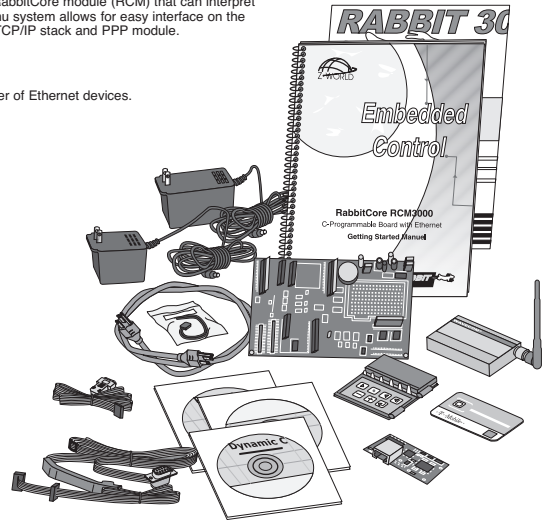
- HW/SW for wireless RCM-to-GSM communication
- Dual Band GSM/GPRS modem and antenna
- Keypad/Display configuration menu system
- Royalty-free TCP/IP stack with source code & PPP
- Samples/Libraries including Machine2ME Node Applications

Applications:

- Wireless Embedded Control
- Alarms & Notification Systems
- Remote Device Monitoring
- Data and Event Logging
- Machine Communication

M2M Application Kit Specifications:

Feature	Serial-to-Ethernet Application Kit
Control Device and Display System	
Microprocessor Core Module	RCM3200 RabbitCore module
Microprocessor	Rabbit 3000 running at 44.2 MHz
Ethernet Connectivity	10/100Base-T, RJ-45
Memory	512K Flash, 512K SRAM (program). 256K SRAM (data)
General Purpose I/O	52 digital I/O, Auxiliary I/O Bus
Prototyping Board	RCM3200 Prototyping Board
Serial Ports	RS-232 (2 3-wire or 1 5-wire). Additional CMOS ports available on RCM3200
Display	122 x 32 Keypad/Display Unit with LCD menu system
GSM Modem	Wavecom Fastrack Dual Band GSM/GPRS modem (900/1900 MHz for US Kit, 900/1800 MHz for International Kit)
Antenna	Wave Device Antenna. 90° Adjustable Knuckle Antenna (1850-1990 MHz for US Kit, 870-960MHz for International Kit)
SIM Card (US Kits only)	T-Mobile SIM card (Activation required)
Software Development System	
Software Compiler	Z-World's Dynamic C 8.x with TCP/IP stack
Software Libraries	SMS/GPRS modes, Modem-specific Library
Additional Libraries	Dynamic C PPP module, Generic Modem Library, TCP/IP, SMTP, POP3, Telnet
Sample Programs	For SMS and GPRS communication and control Machine2ME components. FTP datalogging
Menuing System	For display of SMS and GPRS communications
Included Accessories	
Cables	Programming Cable for RCM 10-pin @ DB15 Conversion Cable Ethernet Crossover Cable
Documentation	M2M Applications Kit Getting Started Manual RCM3200 Getting Started Manual Full Documentation on CD
Power Supplies (US Kits Only)	9 V DC adapter for RCM3200 12 V DC, 1 Amp (min.) for GSM Modem. Power cable included.



MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
694—101-0721		M2M Application Kit	699.00