



GPRS/GSM Application Kit

Rabbit-based control via GPRS/SMS communications

Cell phones are not the only devices that can communicate in a GSM network – a Rabbit-based control device is also on the list. Imagine your machines notifying you when they need servicing; change settings from anywhere in the world; upload data wirelessly; send commands from one machine to another; receive vehicle location/conditions via e-mail. These are all examples that combine control with wireless GPRS/GSM communications.

Z-World's GPRS/GSM Application Kit provides all the tools necessary to sample and develop applications that **combine a Rabbit-based control device with a GSM/GPRS modem**. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore module (RCM) that can interpret messages as commands and in turn execute control functions. The RCM can also send/receive GPRS e-mail wirelessly to/from any PC, GSM device, or cell phone. The LCD/keypad module included in the GPRS/GSM Application Kit incorporates a menu system that provides for an easy interface to read or send text messages and e-mail.

The GPRS/GSM Application Kit includes Z-World's Dynamic C™ integrated development software with royalty-free TCP/IP stack and PPP module.

GPRS/GSM Application Kit Highlights

- Hardware/Software for wireless RCM communication and control via GPRS/GSM.
- Enfora™ Spider SA-GL Quad Band wireless modem and antenna.
- GUI and Keypad configuration menu system.
- Royalty-free TCP/IP stack in source code.
- Sample programs/libraries for generic modem operation.
- Fully integrated development software: compiler, editor, and debugger for control applications.

Applications

- Wireless Automation and Control
- Alarm & Notification Systems
- Remote Monitoring
- Data and Event Logging
- Machine Communication
- FTP (File Transfer) Uploading
- Telnet, e-mail, text messaging communications



Related Offering

M2M is a market segment that brings together wireless and web portal service providers, modem manufacturers, middleware/application/IT infrastructure designers, and machine control manufacturers to respond to the growing need for building an end-to-end wireless implementation to link machines with their office operations. We have created the M2M Application Kit that responds to this particular market. Customers can take advantage of combining wireless communications with a wired LAN/Ethernet system for a more practical approach to M2M applications.

GPRS/GSM Application Kit Specifications	
FEATURE	GPRS/GSM Application Kit
Microprocessor Core Module	RCM3100 RabbitCore module
Microprocessor	Rabbit 3000 running at 29.4 MHz
Memory	512K Flash, 512K SRAM
Prototyping Board	Standard RCM3100 Prototyping Board
Serial Ports	6 CMOS-compatible ports available on RCM3100. RS-232 channel (2 3-wire or 1-5 wire) available on Prototyping Board
Display	122 x 32 Keypad/Display Unit with LCD menu system
GSM Modem	Enfora Spider SA-GL Quad Band GSM/GPRS modem (850/900/1800/1900 MHz)
Antenna	½ Wave Device Antenna. 90° Adjustable Knuckle Antenna (1850-1990 MHz)
SIM Card (Sold separately)	Available through wireless service provider or AIRDESK (requires wireless service subscription)
Software Compiler	Dynamic C™ with TCP/IP stack
Software Libraries	GPRS/SMS modes, Modem-specific Library
Additional Libraries	Dynamic C PPP module, Generic Modem Library
Sample Programs	For SMS and GPRS communications and control. FTP datalogging, TCP/IP, SMTP, POP3, Telnet
Menuing System	For display of SMS and GPRS communications
Cables	Programming Cable for RCM DB9 → 10-pin Conversion Cable
Documentation	GPRS/GSM Application Kit Getting Started Manual RCM3100 Getting Started Manual
Power Supplies	12V DC adapter for RCM3100 5V DC, 2 Amps for Enfora Modem
Pricing	\$649
Part Number	101-0948

Where to Buy – More Information

Orders may be placed directly online at www.zworld.com, or by phone at 1.530.757.3737. For sales outside the U.S., contact the authorized distributor in your country. For more information about the GPRS/GSM Application Kit, and related links and documentation, please refer to our website at www.zworld.com/products/AppKits/.

Development Partners



Z-World has partnered with AIRDESK (www.airdesk.net) to be the key supplier for the Enfora™ Spider SA-GL modem. AIRDESK is a leading provider of wireless data solutions and services focusing on GSM/GPRS and telemetry market segments. AIRDESK carries the top brands in wireless devices to deliver the best solution for a customer's needs, as well as to facilitate provisioning and account activation through the nation's leading wireless service providers - T-Mobile and Verizon Wireless. AIRDESK is a key resource in integration, testing, and certification of a Rabbit-based embedded GPRS/GSM solution.



Enfora is a leader in enabling GSM/GPRS, 802.11, and CDPD wireless data solutions to enhance mobility and data access from remote locations for public and corporate sectors. From advanced technology for OEMs and developers to innovative products for end-users, Enfora puts the power of wireless wherever you need it. Enfora's family of GSM/GPRS, 802.11, and CDPD products provide access to mission-critical data, files, and applications – anywhere, anytime.