Features

- ■ Support GPRS 850/900/1800/1900 MHz frequency
- ■ Virtual COM Extend Real COM Ports via GPRS/WCDMA
- ■ Support GPRS network automatic re-connection function
- ■ Remote I/O Control via utility COM by Modbus RTU Protocol
- ■ 1 x Utility Port for Configuration
- ■ 1 x RS485, 6 x DI, 2 x DO, 1 x AI
- ■ Power Reverse Polarity Protection
- ■ Power supply +10 V_{DC} ~ +30 V_{DC}
- ■ DIN-Rail mountable

RMV-514

Intelligent Multiport Serial to GPRS Gateway with I/O
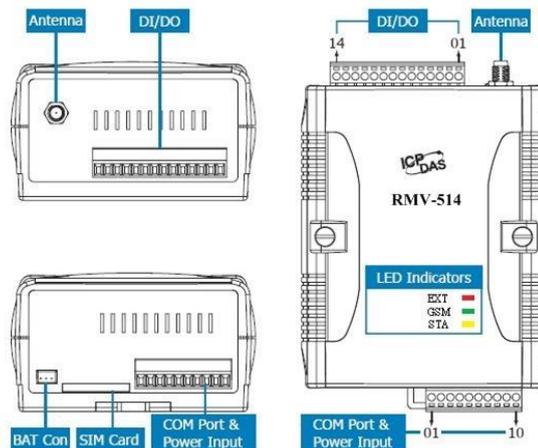
CE FC RoHS

2G/3G Products

Introduction

The RMV-514 is an intelligent multiport serial to GPRS gateway with I/O for industry M2M applications. It is designed for linking RS-485 devices to a GPRS network and remote I/O monitor. The user-friendly Axiom Driver/Utility and VxServer allow users to easily turn the built-in COM ports of the RMV-514 into standard COM ports on a PC. By virtue of its protocol independence, a small-core OS and high flexibility, the RMV-514 is able to meet the demands of every network-enabled application. In addition, the RMV-514 also supports GPRS network automatic re-connection function when the RMV-514 is broke the GPRS network by something happened. It also supports remote I/O monitor via virtual COM by Modbus RTU protocol. M2M solution will improve the service quality and reduce operating costs. Many application areas can be improved by using RMV-514.
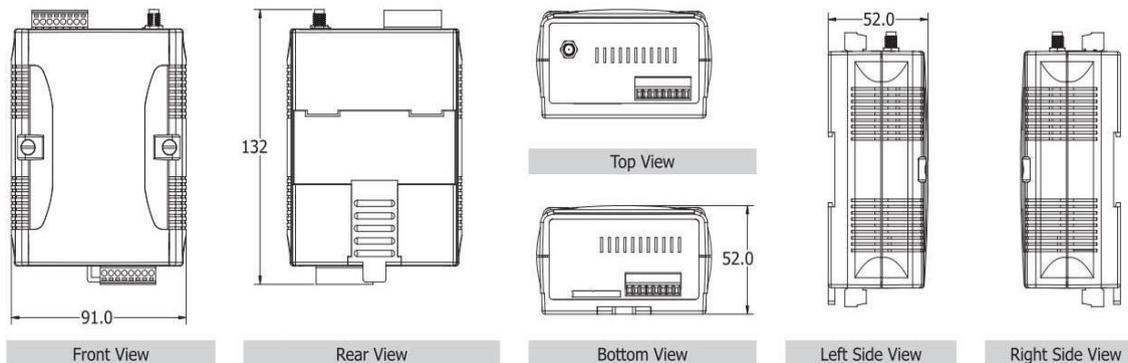
Applications

Intelligent 2G/3G Module

Appearance

Specifications

System	
CPU	32 bit CPU
SRAM	64 Kbytes
Flash Memory	512 Kbytes
WDT(watchdog)	Yes
RTC	Gives time(sec, min, hour) & data, leap year compensation
GSM/GPRS Module	
Frequency Band	Quad-band 850/900/1800/1900 MHz
Compliant with GSM phase 2/2+	Class 4(2W @ 850/900 MHz)
	Class 1(1W @ 1800/1900 MHz)
Coding Schemes	CS1,CS2,CS3,CS4
GPRS multi-slot	Class 10/8
Serial ports	
Utility port	RS-232: TxD, RxD, GND (use for device configuration and debug)
COM1	RS-485: D+, D- (use for communication with other devices)
Baud Rate	2400、4800、9600、19200、38400、57600 and 115200 bps
Digital Input	
Channels	6
Input Type	Sink or Source, Isolated channel with common power or ground
OFF Voltage Level	+1V max
ON Voltage Level	+3.5 ~ 30 V_{DC}
Isolated Voltage	3750 V_{rms}
Digital Output	
Channels	2
Output Type	Open-Collector(NPN)(100mA@30V_{DC})
Load Voltage	+30 V max
Load Current	100 mA max
Isolated Voltage	3750 V_{rms}
Analog Input	
Channels	1
Resolution	12 bits
Input Range/Type	0~20 mA
Power	
Protection	Reverse polarity protection
Frame Ground Protection	ESD, Surge, EFT, Hi-Pot
Required Supply Voltage	+10 VDC ~ +30 VDC
Mechanical	
Casing	Plastic
Flammability	UL 94V-0 materials
Dimensions (W x L x H)	91 mm x 132 mm x 52 mm
Installation	DIN-Rail
Environmental	
Operating Temperature	-25 ℃ ~ +75 ℃
Storage Temperature	-30 ℃ ~ +80 ℃
Ambient Relative Humidity	5 ~ 95% RH, non-condensing

Dimensions (Units: mm)

Front View	Rear View	Bottom View	Left Side View	Right Side View

Ordering Information

RMV-514	Intelligent Multiport Serial to GPRS Gateway with I/O