MicroCom-CM

Wireless Communicator

The MicroCom-CM unit is a compact wireless communications module that incorporates a wireless modem, a small but powerful microcomputer and various Inputs / Outputs. The MicroCom-CM software controls how the application is interfaced to the communication device, this intuitive Graphical User Interface (GUI) easily guides the user through the set-up process. Each Input and Output is individually configured to meet the needs of the application. Parameters such as alarm conditions, high and low limits and timing intervals are easily entered in the GUI. MicroCom software is available for Win9X, Win NT and PalmOS platforms

MicroCom-CM is designed to interface with peripherals such as GPS receivers, instruments, various sensors electrical and mechanical devices. It is able to send or receive commands originating from the Internet or the Application based on the user-defined configuration. Data is processed by the ROM Operations Centre (ROC) and distributed through the Internet to the end user. In doing the processing at the Server, low cost sensors can be used in place of “smart” sensors or high cost data loggers. The raw data is processed at the server end, allowing the user to adjust filtering and offsets from a web interface.

Each MicroCom-CM unit is assigned a secured encrypted WEB page that is customized by the end user and password protected. ROM removes the burden from our customers of maintaining dedicated servers, databases, backup systems and specialized software.

The MicroCom-CM can communicate alarms and notifications to PC’s, Cellular phones, PDA’s and Pagers

The MicroCom-CM includes:

- A powerful 3-watt AMPS wireless modem for reliable connectivity.
- A multitasking processor that provides data logging features, powerful I/O functions, speed and flexibility.
- A rugged extruded aluminum enclosure which provides excellent shielding and mechanical characteristics.

- **Multitasking processor**
- **Data logging capabilities**
- **3-watt AMPS modem**
- **4 digital inputs**
- **3 digital outputs**
- **4 analog inputs**
- **Serial interface**
- **GPS interface**

ROM Communications Inc.

www.romcomm.com

MicroCom-CM Specifications

Wireless Modem

Operating frequency	824.01—893.97 MHz
Supply voltage	13.2 Volts DC (Nom)
Supply current	125 mA (nom) receive
	1300 mA (nom) Transmit
Antenna Connection	50 ohm SMA
Power output	3 Watt

Interfaces

DC Power connector	RP34 (locking)
Digital I/O	RJ45
Analog I/O	RJ45
GPS receiver	RJ11
Serial I/O	RJ11
Antenna	SMA

Mechanical

Enclosure	Extruded Aluminum
Dimensions	13 cm x 5 cm x 8 cm
	(5.25” x 2” x 3.125”)
Weight	378 Grams
	13.5 OZ
Colour	Blue Anodized

Power

Voltage	13.2 VDC (nom)
Current operating	150 mA
Current transmit	1.5 Amps
Current Sleep	5 mA
Current Max.	1.5 Amps

Processor

The micro-controller has ample memory and processing power for data logging, custom monitoring and control applications.

Processor	25 Mhz
SRAM	128K
Flash memory	512K
Real-time clock	Calendar & alarm functions
Inputs	4 Analog
	0-5 volts level
	4-20 mA level
	10-bit (0-999) resolution
	4 digital
	0-5 volts logic level
	10K pull-up to 5 volts
	1 Serial RS-232
	9600 baud, N, 8, 1
	1 GPS (serial)
	4800 baud, N, 8, 1
	NMEA-2 compatible
Outputs	3 Digital
	0-5 CMOS levels
	1K series resistor
	4 Status LED’s
	Power, service
	Transmit, GPS
	1 Serial RS-232
	9600 baud, N, 8, 1

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