

## SR123™ RF Data Interface ~ Radio Modem ~ For M2M Applications

### Description

Universal Com Link's SR123™ radio modem is the communication link to pull everything together. The SR123™ is a digital RF data interface for use in M2M (machine to machine) applications. This radio modem can be used as a standalone unit or as an integral part of a complete telemetry system.

### Features

- All Industrial Grade components
- 14 Digital inputs + ignition input
- 6 Digital outputs
- 12 Channel GPS receiver
- 4 LED indicators: RUN, GPS, RX, TX
- RS232 Serial interface
- Two-way radio modem connection
- Small 4"w x 5.25"h x 1"d footprint - weight is less than 1lb.
- Housed in a rugged extruded aluminum case w/mounting tabs
- 3 year warranty
- Proudly Made in USA



14 digital inputs to monitor all kinds of vehicle activity, inputs can be defined to be low or high asserted and critical or nominal. Critical inputs report changes immediately. The inputs are protected from up to 60 volts DC.

6 digital outputs to perform any control operation. They consist of relay drivers that drive any 12-volt relay.

The modem monitors and passes the ignition signal to the radio. This feature allows the modem to control radio power by feeding it a simulated ignition and keep the radio on in the field to connect with the workers when the ignition is off.

The modem can be powered from the radio or directly from the vehicle battery with voltage protection of up to 30 volts DC.

The unique radio interface of the SR123™ makes the modem compatible with all two-way radios, cell modems and other wireless forms of communication.

## Networking Capabilities

A unique feature of the modem is that if a computer is connected to the serial port, it accepts it as another host on the network. In other word, the base modem is just like the field modem with server connected to its serial port. This feature allows the network to exchange messages of any kind between the base server and computers connected to the field modem - allowing text messages and other routing data to be exchanged between the server and remote field computer.

Any other serial device may be connected to the serial port of the modem and be controlled by the server connected to the base modem.

The modem also allows a network to be built with two-wires alone for monitoring of fixed assets. The two-wire system allows power and data to be delivered to each modem.

## SR123™ Specifications

HARDWARE	
<b>Inputs</b>	14 Digital Inputs Definable as Low or High Asserted – Critical or Nominal Critical inputs report changes immediately Protected from up to 60 volts DC
<b>Outputs</b>	6 Digital Outputs – will drive any 12volt relay
<b>Output Power</b>	5VDC – supplied through serial port pin-9
<b>Network Protocol</b>	DHCP, PPPoE, Static IP, TCP/IP
<b>Wireless Communication</b>	Two-way Radio, cellular, WiFi, WiMAX, Ethernet, Wireless LAN (802.11), satellite, and other wireless options
Software	
<b>ID Number</b>	A 16-bit ID number can be assigned to the modem for identification
<b>Web Client Software</b>	Included - Web based - secure login
<b>Remote Client Software</b>	Included- All configuration can be done remotely
<b>Language</b>	English
ELECTRICAL & ENVIRONMENTAL	
<b>Input Power</b>	From radio or directly from vehicle battery
<b>Power Requirements</b>	7 - 30VDC – Overload protected
<b>Power Consumption</b>	70ma max
<b>Operating Temperature</b>	-30° to +180°F (-35° to +82°C)
<b>Operating Humidity</b>	10-98% RH (non-condensing)
PHYSICAL	
<b>Weight</b>	13.2 oz (374g)
<b>Dimension (W x H x D)</b>	4" x 5.25" x 1" (101.6mm x 133.3mm x 25.4mm)
<b>Shock Tolerance</b>	300G (with shock mounting)
<b>Regulatory Type</b>	CE, FCC, UL, RoHS (lead free)

OPTIONS	
<b>Vehicle Sensor</b>	Brake, stop, warning, left, right, reverse, light bar, siren, vehicle speed, vehicle speed calibration function, Km/h or Mile/h selectable
<b>Shock Mounting</b>	Dynamic Fluidic Shock & Vibration Dampening System
<b>Communication Interface</b>	1 RJ-45 (10/100 Ethernet), 1 RS232, 1 RS485

WARRANTY	
<b>Modem</b>	3 years
<b>Installation</b>	All UCL installations are covered by our 1 year workmanship warranty
<b>5 Year Extended</b>	Optional warranty to protect your investment for 5 years



**FIELD PROVEN RELIABILITY** - the SR123™ modem has been operational in vehicles and in rough industrial environments with NO failures in the field for 5+ years!

**ALSO AVAILABLE:** SR121™ for analog applications.

**Universal Com Link communications solutions are currently being used in the following applications:**

- Law Enforcement - Patrol Cars, prison busses, ambulances
- Military - Tanks
- Emergency – Ambulances, Fire Trucks
- Public – Buses, Trains, Railways, Subways
- Commercial - Limousines, Taxis, Vans
- Industrial – Heavy Equipment, Oil drilling platforms, Monitoring stations
- Transportation - Freight Liners
- Aviation – Helicopters, Commercial and Private Aircraft



**UCL has complete interoperability systems & solutions**

Prices and specification may change without prior notification. Please contact a sales representative for the latest information.

**Universal Com Link**

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