RAELink3 Z1

Wireless Modem with Integrated Global Positioning System

RAELink3 Z1 modem allows integration of many RAE Systems gas and radiation monitors, and select third-party devices into an AreaRAE wireless detection system. Monitors linked with a RAELink3 Z1 modem can communicate sensor data and GPS coordinates to a PC running RAE Systems safety monitoring software. Bluetooth connectivity simplifies use with handheld monitors, while a user-friendly display and interface simplify configuration and status checking of the RAELink3 Z1.

- **View and track sensors and responders downrange**
- **Deploy quickly and easily**
- **Merge multiple detection technologies on one viewing platform**
- **Integrate two devices with one RAELink3 Z1 using Bluetooth and a cable**

KEY FEATURES

- Integrated
  - GPS equipped for tracking and viewing of monitors on a local mapping area
  - Bluetooth or cable connection options to monitors
  - Long range radio to transmit sensor data up to 3 km
- Versatile
  - Easily configure in the field to interface with other AreaRAE systems
  - Programmable from Host modem, to Repeater, to Remote modem as needed
  - Configurable for a variety of monitors and detection technologies

- Easy to Use
  - Backlit display with intuitive interface
  - Radio strength indicator on LCD
- Durable
  - Weatherproof
  - Shock resistant
  - Up to 14 hours run time on single charge

APPLICATIONS

- Industrial Safety
- Emergency Response
- Decontamination
- Venue Protection
- Indoor Air Quality

Hazardous Material Response Team member using MultiRAE Plus and GammaRAE II R with RAELink3 Z1

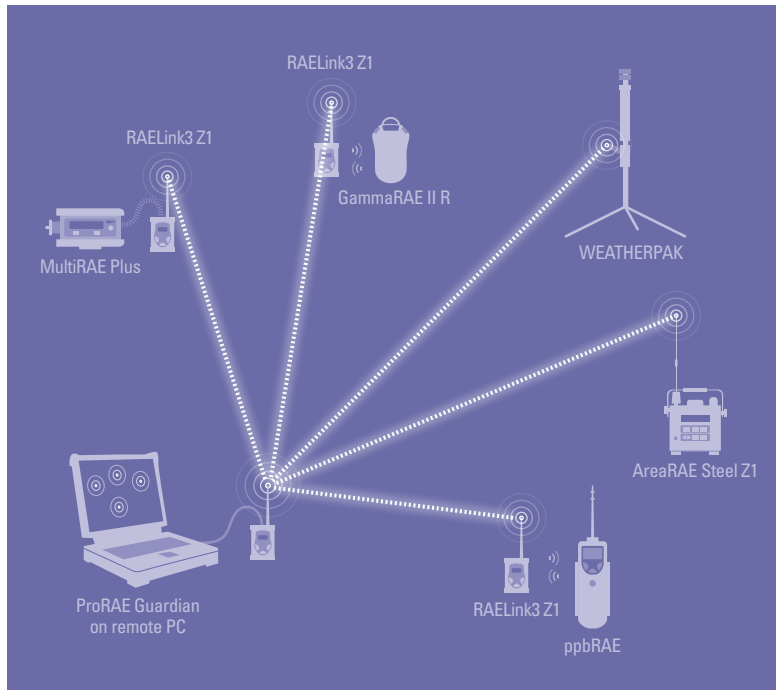Wireless   GPS   ISO 9001 CERTIFIED   ATEX

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SPECIFICATIONS*

Size	4.73" L x 3.4" W x 1.85" H (12cm x 8.65cm x 4.7cm) without antenna
Weight	17.3 oz (490 g)
Battery	Rechargeable, 7.4V/1650mAh, lithium-ion battery
Operating Hours	Up to 14 hours continuous operation
Operating Temperature	-4° to 131° F (-20° to +55° C)
Humidity	0% to 95% relative humidity (non-condensing)
IP Rating	IP-65
GPS Accuracy	Within 5 meters
Frequency	869 MHz (license free ISM band)
Peak RF Power	+27 dBm ERP with 1.5 dBi antenna
Range	Up to 3 kilometers
Interface	RS-232 or Bluetooth
Keypad	Three operation and programming keys
Display	LCD, 128 X 64
Safety Certification	ATEX II 2G EEx ib IIc T4

* Specifications are subject to change.

RAELINK3 Z1 COMMUNICATION KITS

RAELink3 Z1 kit enables communication between a variety of RAE Systems' most popular monitors and safety monitoring software like ProRAE Remote or ProRAE Guardian.

RAE Monitors
- GammaRAE II R
- MiniRAE 3000, ppbRAE 3000 and UltraRAE 3000
- MultiRAE Plus
- MiniRAE 2000
- ppbRAE Plus

RAELink3 Z1 Communication Kit Includes:
- RAELink3 Z1 modem equipped with GPS, Bluetooth, and 869MHz long range radio
- Whip antenna with TNC connection
- Antenna with 3.5 meter cable and magnetic mount— For use when in Host or Repeater mode
- Charging adapter and power cable
- Hard transport case
- Quick reference guide and resource CD
- RS-232 cable (for connection to devices not equipped with Bluetooth)

ORDERING INFORMATION

RAELink3 Z1 Modem	Part Numbers
(869 MHz, Bluetooth)	029-0600-000

Contact RAE Systems for other frequency options