



RAELink3 Mesh

Portable Wireless Modem with GPS



RAELink3 Mesh enables RAE Systems personal gas and radiation detectors, and select 3rd party monitors to communicate wirelessly with ProRAE Guardian safety monitoring software so that commanders and emergency response coordinators can make better decisions in real time.

Fast assessments of the toxic hazards within a large area can be characterized by integrating real-time sensor readings from multiple instruments and technologies. As a result, commanders can make critical decisions such as emergency responder and public safety or evacuation more quickly.

KEY FEATURES

- Dual integrated modems
 - Mesh radio for automatic link to detectors within 33 feet (10m)
 - Frequency hopping radio for data transmission up to 2 miles (3km) back to host
- Local display of radio strength and power status
- Rugged impact resistant housing
- Rechargeable Li-Ion battery runs up to 14 hours under normal operating conditions
- Link up to 9 monitors (8 wireless and 1 wired) per RAELink3 Mesh

APPLICATIONS

- Hazardous Material Response
- Fire Overhaul
- CBRN Detection
- Search and Rescue
- Public Venue Protection

- **Rapid configuration & deployment**
- **Easy to operate with informative user interface**
- **Built for routine use in harsh environments**
- **Reverse compatible with AreaRAE systems**



MultiRAE Pro with RAELink3 Mesh used for screening potentially hazardous drums



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SPECIFICATIONS

Instrument 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, Li-Ion external battery pack, and alkaline adapter (5 x AA)
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 15 feet (5 meters)
Peak RF Power	1 watt (+30dBm)
Range	Up to 2 miles (3km) for long-range radio, up to 330 feet (100m) for mesh
Interface	Three operation and programming keys
Keypad	Three operation and programming keys
Display	LCD, 128 X 64
Safety Certifications	Class I, Division 2 Groups A, B, C, D T4
Wireless Frequency	ISM license free band (902 - 928 MHz)
Wireless Approvals	FCC Part 15, Others ¹
Radio Module	Supports RM900A

¹ Contact RAE Systems for country specific wireless approvals and certificates. Specifications are subject to change.

RAELINK3 MESH COMMUNICATION KIT INCLUDES:

- RAELink3 Mesh with GPS
- Rugged antenna
- Charging adapter with AC cable
- Alkaline battery pack
- Hard transport case
- Quick reference guide and resource CD
- RS-232 cable (for connection to devices not equipped with mesh radio)

