



AreaConnect 500

Wide Area Communications for the AreaRAE Platform

Monitoring, Communications and Management Appliance

The **AreaConnect 500** is a key component of the AreaRAE wireless platform. It is a server appliance that complements the capabilities of AreaRAE wireless networks.

AreaRAE wireless networks are rapidly deployable systems used for the detection and monitoring of hazardous environments. AreaRAE wireless networks include a personal computer base station that monitors and locally displays real-time readings from up to 32 remotely located detectors placed within a two mile radius. The monitors have numerous options including number and type of sensors and GPS tracking.

The **AreaConnect 500** enables users to monitor a larger area than ever before by communicating with multiple AreaRAE wireless networks. The AreaRAE wireless networks may be located nearby or in a remote location from the **AreaConnect 500**. The required network connectivity can be provided through GPRS, wired ethernet, wireless 802.11, or satellite uplink.

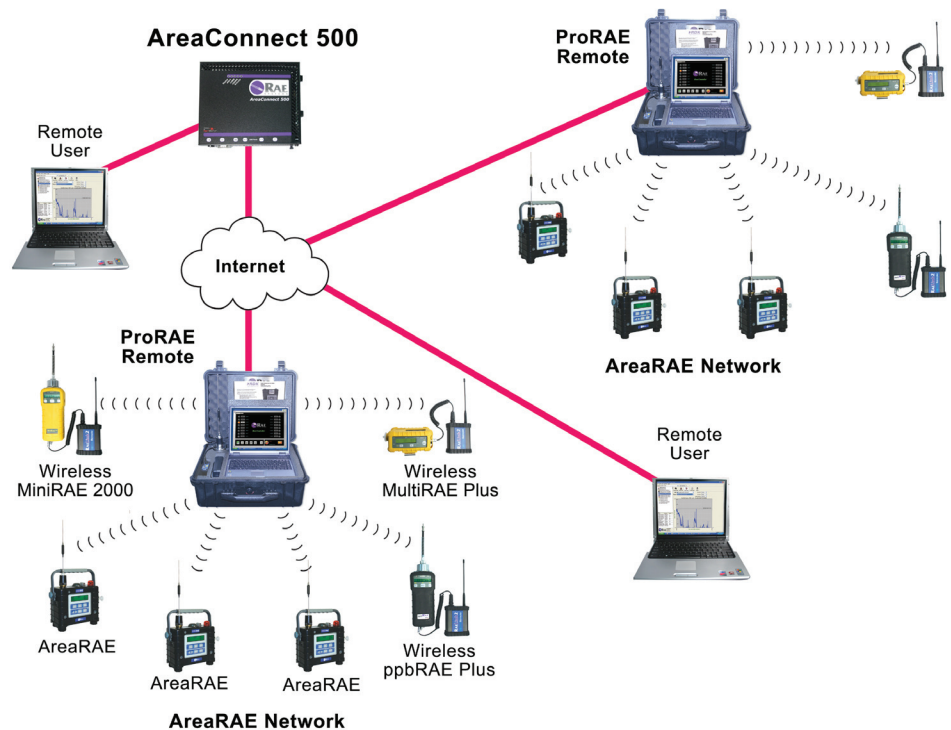
Real-time decision making is vastly improved with the **AreaConnect 500's** data processing and delivery capabilities. Users can access critical system information while in the same room as the **AreaConnect 500** or from across the globe via the Internet. Alerts may be triggered based on numerous parameters such as alert type, sensitivity and time of alert. Alert actions can be delivered to users via e-mail, SNMP and/or text messaging.

The **AreaConnect 500** can serve as an unmanned base station for AreaRAE networks. This allows AreaRAE monitors to be incorporated into larger networks without a PC or ProRAE Remote Software.

The **AreaConnect 500** delivers life-critical information in seconds and enables real-time decision making for emergency response, trend analysis for long-term studies, and corporate-level safety monitoring of remote facilities.

Applications

- HazMat Incident Coordination and Scaling
- Worker and Community Protection
- Fenceline Monitoring
- Industrial Monitoring
- Multiple Facility Monitoring



AreaConnect 500

Specifications *

AreaConnect 500 Server Specifications

Size	6.5"H x 8"W x 1"D (16.5 x 20.5 x 2.7 cm)
Housing	20-gauge metal
Indicators	LED indicators: <ul style="list-style-type: none">• Base Station Status• Alert• Network Speed• Network Activity
Connectors	Ethernet: RJ-45 to Cat 5 network wiring Serial: DB-9 receptacle Power: 5VDC power brick
External Device	4 USB-A ports
Connectors	1 PC Card slot
Data Speed	Ethernet 10/100 Mbps (10/100 BaseT)
Protocols	TCP/IP, HTTP, SMTP, SNMP, DHCP, DNS, Socks V4 or V5 Proxy server
Security	<u>Authentication:</u> <ul style="list-style-type: none">• Provides HTTP Basic Authentication in three privilege levels based on a user ID and password• User IDs and passwords can be encrypted when the HTTP Basic Authentication is used in conjunction with HTTPS <u>Encryption:</u> <ul style="list-style-type: none">• Uses SSL to encrypt communications• Configured with ports 80 and 443 open and usable• Alert actions and periodic report information can be encrypted using SSL
Management Interface Mozilla version 1.3	Internet Explorer version 5.5 or later Netscape Navigator versions 4.79, 6.0, or 7.02 <u>Compatible Operating Systems:</u> Microsoft Windows™ 98 SE, Windows ME, Windows 2000, Windows NT 4.0 or later, Windows XP Red Hat Linux™ 7 or 8 Solaris™ 9
Temperature	5° to 120° F (2° to 50° C)
Humidity	10% to 90% (non-condensing)
Optional Attachments	<u>Output Relay Pod:</u> <ul style="list-style-type: none">• Connects to the AreaConnect 500 via USB port• Enables the AreaConnect 500 to turn a variety of devices on or off (door locks, light switches, etc.)• Includes 2 ports with 8 reed relays each• Up to 4 Output Relay Pods can be connected directly to the AreaConnect 500, enabling the user to control up to 64 relay-based devices• Relay output actions can be triggered manually or can be configured as automatic alert actions in response to a threshold event <u>Extended Storage System Pod:</u> <ul style="list-style-type: none">• Connects to the AreaConnect 500 via USB port• Increases local storage of sensor readings from 24 hours to a maximum of 180 days• All data is stored persistently, and will not be lost if the power to the AreaConnect 500 is interrupted• Camera Pod• 4-20 mA Pod
Power	AC adapter
Warranty	1 year RAE Systems standard warranty

*Specifications are subject to change

ver1_11.06

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Key Features

- AreaRAE systems operating on independent RF network IDs can be combined into one large system
- XML-based data interface allows the use of third-party software to process and display data
- Alerts via e-mail, SNMP and/or text messaging
- Up to 24 hours onboard data retention for reviewing recent alert data, graphs or pictures, and audio clips (optionally expandable to 180 days)
- Alert profiles let you customize notification actions at multiple escalation levels
- Customized alert actions can be configured based on alert type, severity and time alert occurred
- Controls external devices such as door locks or light switches with the optional Relay Pod

The **AreaConnect 500** utilizes authentication and encryption services – through the use of SSL, ciphers, and keys – to ensure the security and privacy of the information that is collected and monitored.

The **AreaConnect 500** is compatible with all RAE Systems wireless systems (including AreaRAE systems, RAEWatch, RAELink2, and ProRAE Remote), GPRS, SMS, Wi-Fi (802.11), and 802.3 ethernet.

The **AreaConnect 500** includes:

- Server as specified
- Operation and maintenance manual
- 120/240 VAC AC/DC Adapter
- Installation CD
- Mounting Bracket
- Unit Stand
- Null modem cable
- USB to serial adapter



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