

# AirGuard PAC-Link

3e-523S-1



The AirGuard® portable adaptive com-link (PAC-link) is an extremely portable, battery operated IP router used in mobile operations. The PAC-link is intended to provide mobile IP connectivity for personnel on the move when the RF signal strength can not be maintained to the base operations center. When the RF signal is disrupted, a PAC-link can be used as a repeater which when situated in a suitable location, will provide suitable RF signal strength between the personnel and the base operations center.

Multiple units can provide secure communications between personnel and the base operations center when large structures are penetrated or around the perimeter of large objects by simply tying the PAC-link units to railings or other convenient tie points as the progress of personnel takes them beyond the signal range of the last PAC-link that was deployed. In this way, connectivity can be maintained between personnel and the base operations center.

Inside the PAC-link is a secure multi-function wireless data module. Also included is a rechargeable lithium-ion battery with a battery charge of approximately eight hours.

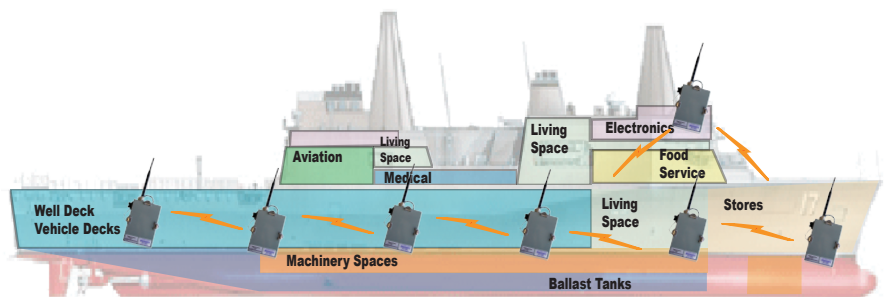
The PAC-link supports three different operating modes:

- Wireless Access Point (WAP)
- Wireless Client (STA), and
- Wireless Bridge (WDS)

The PAC-link can be configured for FIPS or non-FIPS submode.

In addition, the AirGuard PAC-link supports 802.11i and Wi-Fi Protected Access 2 (WPA2), WPA and different EAP types. Temporal Key Integrity Protocol (TKIP) for WPA encryption and Advanced Encryption Standard (AES) for WPA2 encryption.

With support of 802.11a/b/g standards, the PAC-link delivers up to 54 Mbps of data rate in 5 GHz and 2.4 GHz bands.



## BENEFITS

- Battery-Powered Wireless Indoor/Outdoor Mesh, Access Point, Bridge, Client
- Self configuring, self-healing MESH network
- Simple deployment with mesh backhaul
- 802.11a/b/g, Super G & Turbo A up to 108 Mbps
- Detects & reports rogue APs
- AES-CCMP / WPA2 / 802.11i Encryption & Authentication
- Wireless client load balancing
- MAC address filtering
- Compatible with most Wi-Fi infrastructure products

**HARDWARE SPECIFICATION**

- CPU: XScale IXP 420 @ 533 MHz
- 16 MB flash
- 64 MB SDRAM

**EXTERNAL PORTS**

- One 10/100 Mbps WAN Ethernet port
- One DB-9 RS-232 port
- One External antenna port

**LED INDICATORS**

- FIPS Mode
- LAN / WLAN Activity

**ENVIRONMENT & SAFETY**

- Operating Temperature: -10° ~ +50° C standard;
- Storage Temperature: -40° ~ +60° C
- Operating Humidity: 0~80% non-condensing

**LAN ETHERNET SETTING**

- Supports 10 / 100 Mbps full / half duplex with auto negotiation
- Fixed IP
- DHCP client

**WIRELESS FEATURES**

- Multiple RFs
  - 802.11a/b/g for AP and bridge with Turbo A and Super G
- Operation modes (user configurable)
  - Access point
  - Bridge
  - Client (client-bridge)
  - Mesh
- Self-forming, self-configuring, self-organizing mesh
- Channel number
  - Fixed or automatic select (optimum)
- Adjustable transmit power
- 802.11h dynamic frequency selection
- 802.11h transmit power control
- Load balancing of wireless clients
- PPPoE support
- Security:
  - WEP – 64-, 128-, and 152-bit
  - WPA-PSK
  - WPA (802.1x) - Dynamic Key
  - WPA2 / 802.11i
  - AES-CCMP
  - MAC address filtering
  - Rogue wireless AP detection with email notification
- 3eTI layer 2 discovering protocol
- Layer 2 isolation for hotspot

**DEVICE MANAGEMENT**

- Web Server / HTTPS
- SNMP agent
- SNMP trap

**RECEIVE SENSITIVITY**

- 802.11a: -88dB@6Mbps, -71dB@54Mbps
- 802.11b: -95dB@1Mbps, -90dB@11Mbps
- 802.11g: -90dB@6Mbps, -74dB@54Mbps

**OUTPUT POWER**

- 802.11a: 17dBm@6Mbps, 13dBm@54Mbps
- 802.11b: 18dBm
- 802.11g: 18dBm@6Mbps, 15dBm@54Mbps

**TOOLS AND UTILITIES**

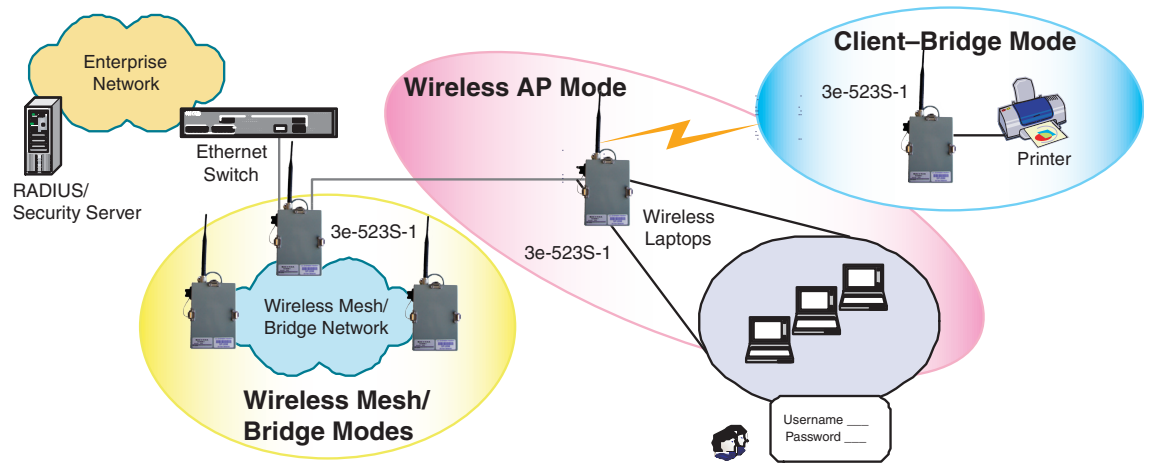
- Ping utility
- Trace route utility
- Firmware upgrade via web
- Reboot device
- Factory default
- NTP (Network Time Protocol)

**BATTERY**

- 10.8V lithium battery with charge Indicator (Battery life is approximately eight hours)
- External battery charger included

**OPTIONS**

- Reduced operational mode set
- Custom MIBs available



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