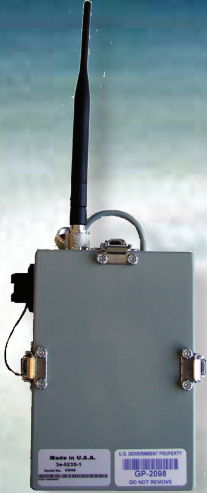
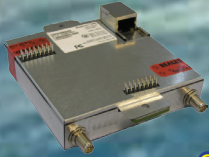


AirGuard™ 3e-523S-1

Portable Adaptive Com-Link



3e-523S-1 contains the
FIPS 140-2 Validated™
3e-523-F2 data module



Certificate #726

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

The 3e-523S-1, also called the Portable Adaptive Com-Link (PAC-Link), is an extremely portable, battery operated IP router used in mobile operations. The 3e-523S-1 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 3e-523S-1 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 3e-523S-1 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 3e-523S-1 units to railings or other convenient tie points as the progress of personnel takes them beyond the signal range of the last 3e-523S-1 that was deployed. In this way, connectivity can be maintained between personnel and the base operations center.

Inside the 3e-523S-1 is the FIPS 140-2 Validated™ 3e-523-F2 multi-function wireless data module. Also included is a rechargeable lithium-ion battery with a battery charge of approximately eight hours.

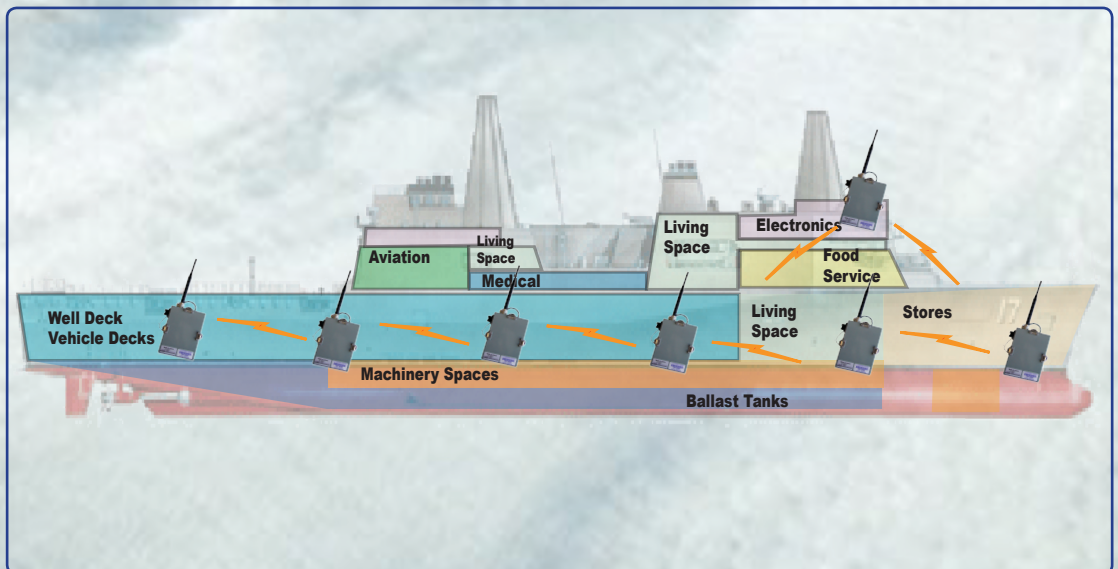
The 3e-523S-1 supports three different operating modes:

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

The 3e-523S-1 can be configured for FIPS or non-FIPS submode.

In addition, the 3e-523S-1 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 3e-523S-1 delivers up to 54 Mbps of data rate in 5 GHz and 2.4 GHz bands.



AirGuard™ 3e-523S-1

Portable Adaptive Com-Link



Hardware Specification

- FIPS 140-2 Validated™ 3e-523-F2 data module
 - 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
- 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

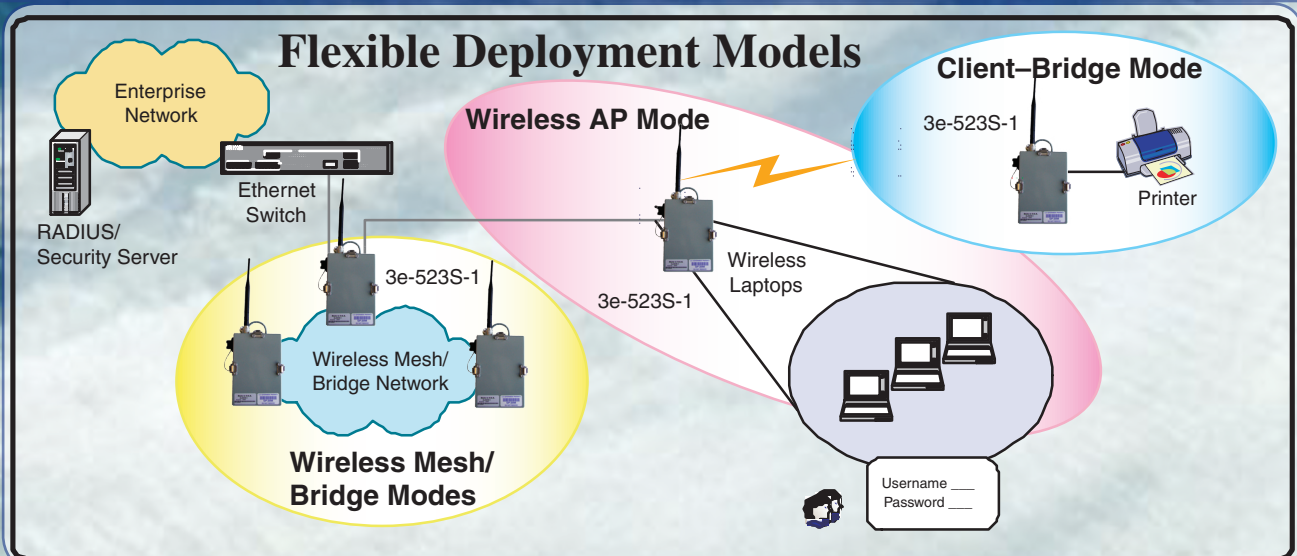
- Ping utility
- Trace route utility
- Firmware upgrade via web
- Reboot device
- Factory default
- NTP (Network Time Protocol)

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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