



# 3e-522FIPS Wireless Gateway



**for unmatched FIPS 140-2 prevalidated  
WLAN Security**

The 3e-522FIPS Wireless Gateway incorporates advanced cryptographic modules which fully conform to the FIPS 140-2 specifications for secure wireless networking. The Federal Information Processing Standard 140-2 (FIPS 140-2) is a standard, published by the National Institute of Standards and Technology (NIST), which describes U.S. Federal Government requirements for IT products needing to meet Sensitive but Unclassified (SBU) use.

The 3e-522FIPS includes the following cryptographic modules: AES/3DES for wireless encryption; dynamic key exchange (Diffie-Hellman module 1024) for wireless communication; and HTTPS/TLS, for secure web communication. MAC Address authentication is also available in both access point and gateway mode.

The addition of 3e-030 Security Server software, configured to dynamically assign secure key access, will raise the security capability of the 3e-522FIPS wireless LAN to its highest level.

Use of the NIST-certified AES or 3DES encryption modules requires use of secure WLAN PC cards (such as the 3e-110 Wireless PC Card) and configuration of the wireless LAN using 3e-010F Crypto Client software.

In addition, the 3e-522FIPS incorporates Power over Ethernet (PoE). The PoE solution eliminates the need for power outlets at the gateway's location. The capability to switch to AC power has been provided as a backup, however, in the event the PoE hub is lost or unavailable.

The 3e-522FIPS can be installed as an access point, allowing wireless users to "roam" freely throughout the serviced location, passing transparently from node to

## Benefits

- Meets U.S. Department of Defense wireless security requirements
- Ultimate WLAN Security
- Either Gateway or Access Point mode, based on configuration
- Seamless roaming
- Driver level encryption to prevent known Trojan attacks
- Cryptographic Driver Software with no extra per client charge, unlike VPN solutions

## Features

- FIPS 140-2 prevalidated AES and 3DES for wireless (802.11b)
- Enables HIPAA compliancy
- SHA-1 (security against brute-force collision and inversion attacks)
- HMAC SHA-1 for firmware upgrade
- Diffie-Hellman Key Exchange
- HTTPS/TLS for web services
- RSA for digital signature to support dynamic key exchange
- RF management for variable power control up to 200mW
- Supplemental per session, Dynamic Key Server, client cards and Crypto Client Drivers
- HPNA interface

node with no loss of service. If installed as a gateway, it has additional firewall protections from the external LAN and the capability to control information flow and security.

Its removable antennas can be swiveled to improve reception. In addition, it incorporates a Radio Frequency (RF) Manager which allows the system administrator to remotely manage radio frequency power levels.

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## Major Market Applications for the FIPS 140-2 Prevalidated 3e-522FIPS Gateway

**Government** – The 3e-522FIPS Gateway assures Government agencies that their wireless networks will be FIPS 140-2 prevalidated, that data will remain secure, and unauthorized snooping of confidential information will be denied.

**Education** – Colleges and universities must be constantly vigilant about security. 3e Technologies International's 3e-522FIPS gateway with AES or 3DES encryption enabled protects the university's wireless communications from snooping by unauthorized users while permitting information-sharing by authorized users.

**Healthcare** – FIPS 140-2 prevalidated WLAN solutions enable real-time exchange of highly encrypted diagnosis, treatment & billing information and thus enable HIPAA compliance with patient confidentiality requirements.

**Financial Services** - AES and 3DES encryption enable employees to securely and wirelessly access information wherever, and whenever, they need it. Fast, mobile and protected access to WLANs is guaranteed.

**Manufacturing** - Highly encrypted WLANs provide secure, uninterrupted network access to mobile employees, selected supply chain partners, and production machines resulting in improved employee productivity, partner collaboration, and manufacturing flexibility.

### Features

- Local Ethernet LAN
- Ethernet uplink WAN
- Removable antennas
- Wall- or desk-mountable

### Encryption

- AES
- 3DES
- 802.1x/EAP-TLS for authentication
- HTTPS/TLS, for secure Web-based communication
- Dynamic Key Generation enabled

### Standards

- 802.11b
- 802.3
- 802.1x

### Certifications

- FCC Part 15, Class B; Part 68
- UL compliant

### Ports

- IEEE 802.11b
- Ethernet LAN
- Ethernet WAN
- HPNA 1.1/RJ11

### Size

- 9.375" x 9 x 2.5"

### Weight

- 5 lbs.

### Temperature

- 32 - 122 degrees F
- 0 – 50 degrees C

### Humidity

- 5 % to 90 %, non-condensing

### Wireless

- AES/3DES encryption
- Dynamic Key Generation when used with 3e-030 Security Server
- Bridging between Ethernet and wireless
- MAC address filtering
- Seamless roaming (within the same subnet)
- Radio on/off
- Adjustable radio power
- Open system authentication

### LEDs

- Power
- Ethernet Uplink
- Wireless LAN activity
- Error State LED indicator

### Configuration & management

- Web-based

### Power

- PoE; 48 v DC
- AC: 115v/60~ AC

### Warranty

- Limited one year

e-Devices ▲ e-Infrastructures ▲ e-Applications

For more information on 3e Technologies International's Solutions and Applications...

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