

# AirGuard® NexGen Access Point

3e-525N



AirGuard NexGen Access Point (3e-525N)

## KEY BENEFITS

- **Always-on availability:** Self-forming, self-healing mesh network
- **Flexible functionality:** Functions as an access point / bridge /repeater / mesh network
- **Robust:** Rugged packaging ideal for hostile environments
- **Easy to manage:** Accessible Web interface for easy wireless device configuration and management
- **Cost effective:** More affordable than traditional cable trenching

## KEY FEATURES

- Highly secure – AES 256, FIPS 140-2 validation AES and 802.11i
- Dual radios with MIMO antennas with maximum data rate of 300 Mbps per radio
- 802.1Q VLAN allows use of multiple SSIDs
- Power-over-Ethernet (PoE) standard 802.3AF
- Per VLAN security policy to prevent security compromise spread (Or Unique key access simplifies VLAN security management)
- Automatically detects and reports rogue APs
- Integrated wireless client load balancing

## Robust 802.11n multi-radio wireless mesh node enabling secure network communications

3eTI's AirGuard® NexGen Access Point 3e-525N is a next-generation secure wireless mesh node that provides seamless voice, video and data communications in the most challenging environments. The freedom from geographical constraint makes the device ideal for military or defense environments such as operating facilities, base camps and field units, which require highly secure communications but don't have the luxury of trenching to accommodate wired solutions.

At link rates of up to 300 Mbps per radio, the NexGen Access Point not only provides a self-forming, self-healing wireless mesh network solution, but also shields vulnerable radio links from sniffing through government certified encryption technologies.

### Multiple MIMO Radio Architecture

The Access Point consists of two 802.11 a/b/g/n radios with 3 multiple-input multiple-output (MIMO) antennas for each radio. Its dual-radio architecture allows individual radio to be configured as access point, bridge/repeater or mesh node. Using 802.11e enhanced quality of service (QoS) traffic management, the Access Point maintains a low and predictable latency of less than 1ms, a performance standard which is critical for closed loop control applications.

### Rugged and Durable Construction

The Access Point is packaged in rugged weatherproof enclosures designed to maintain superior performance even in harsh physical environments, meeting military standards for shock, vibration, and electromagnetic interference. Additionally, the mobile power option has a 9 to 36 VDC power port designed to accept variable input voltage with noise and over-voltage conditions typical of vehicle power systems.

### Robust Security for Wi-Fi and Bridge Communications

Its ruggedness is ideal for tactical military scenarios, but more importantly, the NexGen Access Point is based on 3eTI's Common Criteria Level 4 Certification and FIPS140-2 testing and validation already proven on 3eTI products which meet both military and commercial operations. As with all 3eTI products, the NexGen Access Point provides a range of security options to accommodate a wide spectrum of information assurance requirements.

### Highly Affordable

Whereas traditional large wireless networks incur the installation time and expense to trench Ethernet cables, the Access Point's ease of installation make it a more affordable solution than traditional wired communications. The Access Point can be combined with existing technology, leveraging what is already in place so there is no need for a large scale rip and replace. The device also permits broad wireless network implementation with just a single type of unit which includes 802.11a/b/g capabilities.

## SPECIFICATIONS

### WIRELESS FEATURES

- Multiple Wi-Fi RFs: 802.11a/b/g/n
- Multiple SSIDs / 802.1Q VLAN
- Operation modes:
  - Mesh
  - Access point
  - Bridge/repeater
- Channel number
  - Fixed channel
  - Automatic channel selection (optimum)
- Self-forming, self-healing mesh network
- Adjustable transmit power

### CERTIFICATIONS

(Pending final testing and validation)

- FIPS 140-2 validated
- WiFi interoperability certification
- NIAP EAL 4 Common Criteria certified
- MIL-STD-901D Shock
- MIL-STD-167 Vibration
- DoD PKI
- EMI: FCC Class A
- MIL-STD-464/A Par 5-13 / EMCON
- MIL-HDBK-2036 DoD-STD-1399/301A

### SECURITY

- Non-FIPS mode
  - IEEE 802.11i and WPA1: AES-CCMP
- FIPS 140-2 mode
  - Diffie-Hellman Key Exchange
  - FIPS - AES - 128-, 192-, 256-bit
  - FIPS - 802.11i PSK and 802.1x
- Enable/disable broadcast SSID
- MAC address filtering
- Rogue wireless AP detection with email notification
- NSA Suite B upgradeable
- Wireless AP and wireless client activities monitoring

### MECHANICAL

- 9.25" x 8.25" x 3.00"
- 5.5 lbs

### ENVIRONMENTAL

- Operating temperature: -40° C to +70° C
- Storage temperature: -40° C to +80° C

### INTERFACES

- One 10/100/1000 Base-T WAN (UPLINK) Ethernet port
- One 10/100/1000 Base-T LAN (LOCAL) Ethernet port
- Six MIMO antennas for two radios
- One ground connector
- Power input (MP option)

### POWER

- STD: 48 volts Power-over-Ethernet
- MP: 9 - 36 VDC for mobile power option
- Power consumption: TBD

### PERFORMANCE

- Aggregate 802.11n throughput: 600 Mbps (300 Mbps per radio)

### LED INDICATORS

- Power
- WAN - Ethernet uplink indicator
- WLAN1 - AP activity light/link indicator
- WLAN2 - Bridge activity light/link indicator
- WLAN SS - Bridge signal strength indicator
- FIPS mode

### DEVICE MANAGEMENT

- Web server, HTTPS
- SNMP v1, v2, v3



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Pending Certifications