

## AirGuard™ Wireless Applications

### 3e-525 / 3e-527 Series Wireless Mesh Access Point

# Stationary and Mobile Mesh Networking

### Self-Configuring Mesh

3eTI's AirGuard wireless access points (APs) will auto-form a mesh network with up to 40 other nodes. They create dynamic, high-speed node-to-node links on the fly while providing 802.11a/b/g local hot spot connectivity. With their multiple RFs, high performance and scalable mesh capability, wireless networks can be built spontaneously and at a low cost.

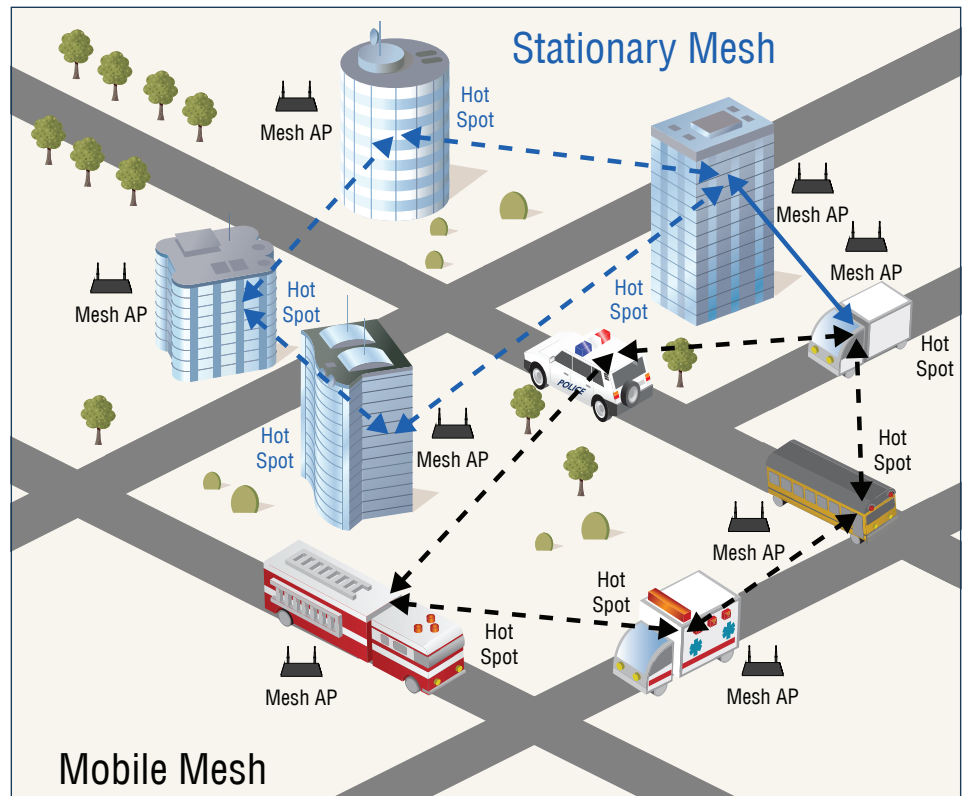
An AirGuard mesh network is self-organizing and does not require manual configuration. Adding new AP nodes or relocating existing APs is simple — power them up and turn them on. In almost all cases, no network cabling is required — just power. The network discovers the new nodes and automatically incorporates them into the existing mesh configuration.

The dual-radio 3e-525 and 3e-527 series feature 802.11a/b/g — including "Super G" and "Turbo A" — for 108 Mbps WLAN, hot spot connectivity, mesh networking, and wireless bridging and repeating.

In addition, the 3e-527 series has an integrated eight-port switch and an encrypted WAN port with Power over Ethernet (PoE).

### Self-Healing

An AirGuard mesh network is not only reliable, it's also highly adaptable. If a potential hot spot or group of client devices is too far away for a solid RF link, just add one or more 3eTI APs to fill in the network gaps. If an AP or link in



3eTI's wireless APs can support both stationary (fixed) and mobile configurations.

an AirGuard mesh network disconnects, data is sent around it via other bridge paths and other APs. Loss of one or more APs doesn't necessarily affect the mesh network's operation. An AirGuard mesh network is self-healing because re-routing is automatic — no human intervention is required.

### Flexible Configurations

Mesh networks using AirGuard APs are decentralized and inexpensive, as each AP need only transmit as far as the next AP. The 3e-525 and 3e-527 series APs function as repeaters to transmit

data from nearby APs to peers that are too far away to reach, resulting in a network that can span large distances.

This is especially useful over rough topology in the countryside or in urban settings. Extra coverage or bandwidth can be installed by simply adding more AirGuard APs.

### Fixed and Mobile Configurations

AirGuard mesh networks support either fixed or mobile configurations.

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# Stationary and Mobile Mesh Networking

They provide an excellent infrastructure for:

- Hot spots
- Mobile networks
- Linking buildings and campuses
- Replacing low-speed outdoor leased lines

#### Stay Connected

AirGuard mesh solutions are the perfect choice to expand existing networks or build out new ones. Telcos, data providers and ISPs are always seeking ways to increase coverage and thus revenues. The transportation industry is an ideal candidate for mobile Internet services, since people can stay connected even while traveling or commuting. However, simple Wi-Fi access does not offer the mobile or constant connectivity required for network access on moving vehicles.

#### AirGuard Meshed Hot Spots

By extending wired LANs and satellite networks with AirGuard mesh networks, people on the move can stay connected — anywhere, anytime. Mobile high-speed data applications for the military, police and government agencies are easily implemented. Also, stationary applications — such as sensor networking, video surveillance, and business and residential hot spots — can be provided with the same AirGuard mesh products.



Network configuration over rough topology is made simple by the installation of additional AirGuard APs.

#### Benefits

- Self-forming, self-configuring, self-organizing mesh — up to 40 nodes
- 802.11a/b/g access point and bridge with Turbo A and Super G — 108 Mbps data rate
- Rapid deployment, simplified installation
- Dynamic bandwidth scaling
- Non-line-of-sight solution
- Robust, built-in security
- Rugged, high throughput with extended range
- Wireless hot spot provisioning



AirGuard 3e-525 series