

AirGuard™ Wireless Applications

3e-525 Series Wireless Mesh Access Point

Wireless Campus Networking

Multiple Solutions for Varying Needs

Whether it is a point-to-point, point-to-multipoint, or mesh networking solution that is required, the AirGuard 3e-525 series wireless mesh access point (AP) is the answer.

For users who require commercial-level security, 3eTI has products utilizing 128-bit AES encryption that meet 802.11i security standards. For government users or any entity requiring very high security, 3eTI features products with 256-bit AES and 192-bit 3DES encryption that are validated to FIPS 140-2 standards and meet 802.11i security standards.

With the AirGuard family of secure wireless infrastructure solutions, you can extend network connectivity between two buildings, throughout a campus, or link together multiple distant corporate sites — without any hard-wired LAN or long-haul network extension.

Recurring wide area connection charges — such as T1 / ISDN / DSL — can be eliminated, along with their bureaucratic support issues and bill payments, which impact your bottom line. 3e-525 series APs can be located virtually anywhere to provide ubiquitous network connectivity. It allows your staff to roam freely throughout their work environment while staying online and productive.

Flexible Mesh Networking

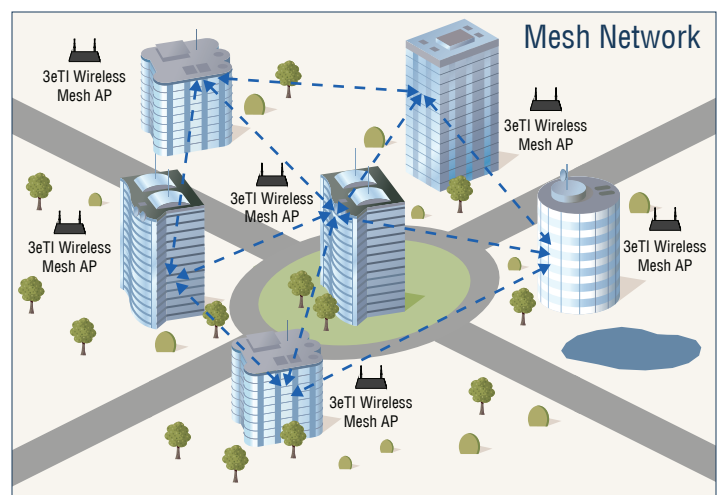
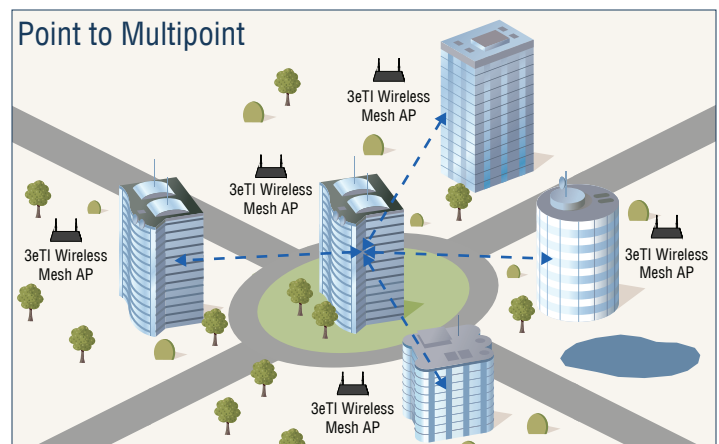
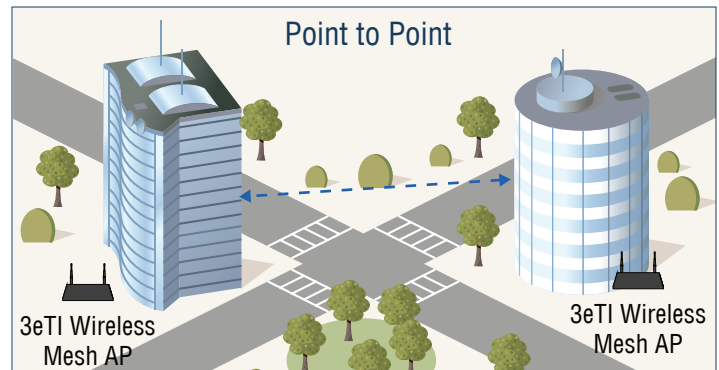
The 3e-525 series' auto-forming, self-healing wireless mesh capabilities are ideal for any enterprise with multiple buildings seeking to avoid the installation of expensive cable infrastructure. With a 3e-525 series mesh network, you can extend LAN connectivity as needed, with up to 40 wireless mesh nodes to improve user mobility and increase productivity.

AirGuard 3e-525 series APs provide 802.11a/b/g connectivity on both its access and bridging ports. In addition, Turbo A and Super G data rates of 108 Mbps are available for access, bridging / repeating, and mesh networking.

Extended Range and Performance

When 14 dbi directional antennas are used without amplifiers, an outdoor wireless networking configuration (802.11g bridging) can reach two miles, at 12+ Mbps throughput.

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When combined with third-party 24 dbi directional antennas and no amplifiers, distances of 10 miles at 10+ Mbps can be achieved (you should consult a professional installer for these distances).

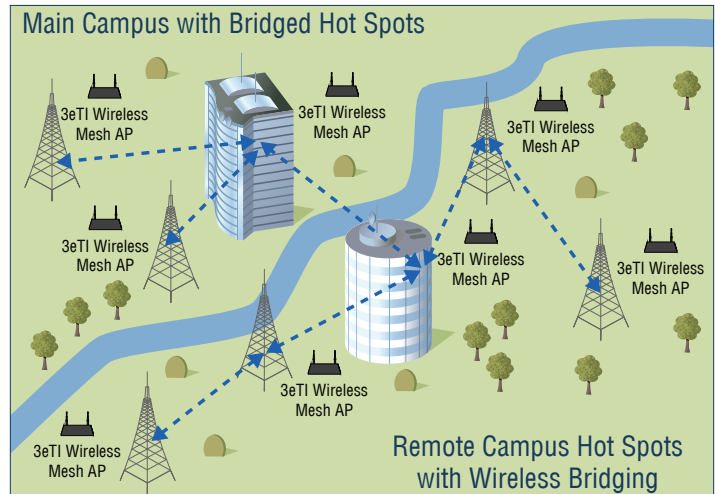
Cost-Effective and Secure

An AirGuard outdoor network is not only reliable, it's also highly extendable. If a potential location 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 gaps.

Enterprise customers who lease or purchase T1 lines will find that an AirGuard outdoor solution is an extremely easy technology to deploy for remote connectivity and is a viable, cost-effective alternative.

To deploy a complete wireless network, 3eTI provides all the software management tools needed to easily configure and manage your APs and clients.

For government facilities needing high security, 3eTI offers NIST-approved, FIPS 140-2 Validated™ APs with DoD-approved encryption and DoD-certified Public Key Infrastructure (PKI) for wireless networking.



The AirGuard point-to-point outdoor solution consists of two or more APs in bridge or repeater mode connected with line-of-sight antennas. The AirGuard point-to-multipoint outdoor solution consists of multiple APs with line-of-sight antennas, which point to a single AP equipped with an omni-directional (360 degree) antenna.



Wireless mesh access point

Benefits

- Least cost solution for network extensions
- Up to 108 Mbps hot spot / access, bridging and repeating
- Self-configuring, self-healing mesh networks — up to 40 nodes
- Rapid deployment, simplified installation
- Dynamic bandwidth scaling
- Non-line-of-sight solution
- Robust, built-in security
- Rugged, high throughput with extended range

FIPS 140-2 Validated™ is a Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian government.