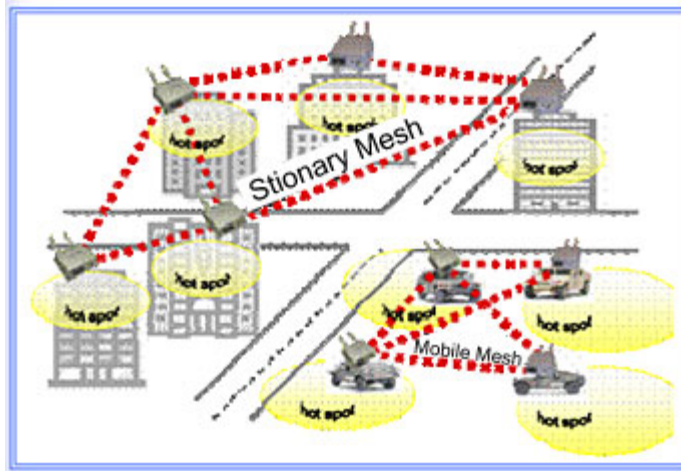


Airvenue-AG Wireless Outdoor Mesh Networking

Model 525C-2 Wireless Access Point ...



Benefits:

- Self-forming, self-configuring, self-organizing mesh – up to 40 nodes
- Dual radios - 802.11a/b/g access point and bridge
- Super G and Turbo A on AP and bridge for 108Mbps data rate
- Rapid deployment, simplified installation
- Dynamic bandwidth scaling
- Robust, built-in security
- Rugged, high throughput with extended range
- Wireless hotspot provisioning

Self-Configuring Mesh

The Airvenue-AG Model 525C-2 Wireless Access Point (AP) will auto-form a dynamic, self-healing mesh network with up to 40 other nodes. With it, you can create high speed node-to-node links on the fly, while providing 802.11b/g/a local hotspot connectivity. With its multiple RFs, high performance, and scalable mesh capability, wireless networks can be built spontaneously and at low cost.

The 525C-2 Wireless AP has dual radios: 802.11a/b/g including “Super G” and “Turbo A” for 108Mbps WLAN & hotspot connectivity 802.11a/b/g including “Super G” and “Turbo A” for 108Mbps mesh networking and wireless bridging & repeating.

An Airvenue-AG 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.

Self-Healing

An Airvenue-AG mesh network is not only reliable, it's also highly adaptable. If a potential hotspot or group of client devices is too far away for a solid RF link, you just add one or more 525C-2 APs to fill-in the network gaps. If a link in an Airvenue-AG mesh network disconnects, data is sent around it via other paths.

Loss of one link doesn't necessarily affect the mesh network's operation. An Airvenue-AG mesh network is self-healing because re-routing is automatic – no human intervention is required.

Airvenue-AG Mesh networks are decentralized and inexpensive, as each AP need only transmit as far as the next AP. 525C-2 APs can also function as linear 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 country side or in urban settings. Extra coverage or bandwidth can be installed by simply adding more Airvenue-AG APs.

The 525C-2 case is IP66 rated for harsh environments – ideal for outdoors and industrial use.

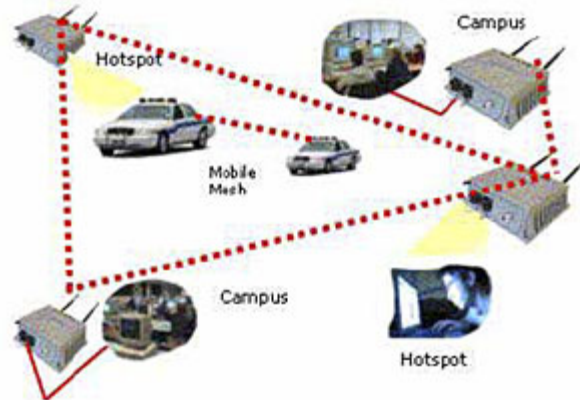
Airvenue-AG 525C-2 Mesh Networks Support Both Fixed & Mobile Configurations

They provide an excellent infrastructure for:

- Hotspots
- Ad hoc mobile networks
- Links between buildings & campuses
- Replacing low speed outdoor leased lines.

Airvenue-AG Meshed Hotspots

By extending wired LANs and satellite networks with Airvenue-AG 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, business and residential hot spots can be provided with the same Airvenue-AG mesh products.



Stay Connected

Airvenue-AG 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.

External Ports

- 1 10/100 Mbps WAN Ethernet port
- 1 LAN port
- 3 External antenna ports

Environment & Safety

- Operating Temperature: -5° ~ +50° C standard; -30° ~ +70° option with TEC
- Storage Temperature: - 40°~ +80° C
- Operating Humidity: 0~95% non-condensing
- EMI/Safety: FCC Class A, CE Approved
- WiFi compliant (Certification in April 2005)
- Lightning protection (option)

WAN Ethernet Setting

- Fixed IP
- DHCP client
- Supports 10/100 Mbps auto negotiation

LAN Ethernet Setting

- 10/100 Mbps full/half duplex auto negotiation

Device Management

- Web Server/HTTPS
- SNMP v1, v2, v3 Agent
- Multiple user privileges

Tools and Utilities

- Ping utility - Trace route utility
- Firmware upgrade via web
- Reboot device
- Factory default

Dimensions

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



Model 525C-2
Wireless Mesh Access Point

Wireless Features

- Multiple RFs
- 802.11a/b/g for AP with Turbo A & Super G
- 802.11a/b/g with Turbo A & Super G for Bridge
- Operation mode: Access Point, Bridge/Repeater
- Self-forming, self-configuring, self-organizing mesh
- SSID
- Channel number: Fixed or Automatic (optimum)
- Adjustable Tx power
- 802.11a Dynamic Frequency Selection (DFS)
- 802.11a Transmit Power Control (TPC)
- Load balancing of wireless clients
- Security
 - WEP – 64, 128, and 152-bit
 - WPA-PSK
 - WPA (802.1x) – Dynamic Key
 - WPA2/802.11i
 - AES-CCMP
 - Enable/disable broadcast SSID
 - MAC address filtering
 - Rogue wireless AP detection with email notification
- Wireless AP and wireless client activities monitoring
 - Signal strength
 - MAC address listing of wireless clients

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