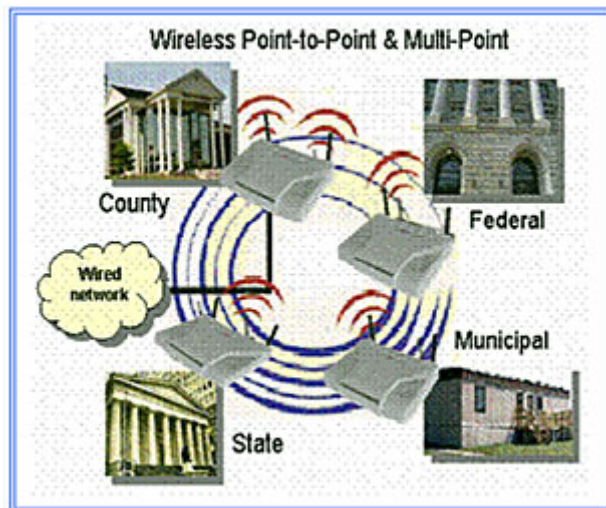


# Airvenue-AG Wireless Government Solutions

## Model 519 Wireless Access Point & Bridge



### Benefits:

- DOD proven, FIPS 140-2 Validated Security
- Increased staff productivity and connect time
- Lower total ownership cost than cable
- Extended network with point-to-point / multipoint connectivity
- 11Mbps mobile local access
- 54Mbps encrypted, wireless bridge / repeater to remote locations & buildings
- Total WLAN solution – clients, AP, bridge/router

### Security is Paramount

As with commercial and civilian sectors, Government agencies see wireless networks as a way to improve mobile workforce efficiencies and enhance productivity. However, due to the sensitive nature of the data and information, WLAN security is of the utmost importance especially when national security interests are at stake.

Stringent, layered security requirements are required for US Government use of wireless LANs (WLANs). These security mandates were issued in DOD Directive 8100.2 and require strong encryption, authentication, key management, digital signature, and personal identification based on Federal Information Processing Standards (FIPS) 140-2. Because of the Directive, all DOD, Department of Home Security (DHS), and associated civilian agencies are required to incorporate FIPS Validated security to protect WLAN infrastructures.

### Proven Platform

Based upon a platform proven in the U.S. Military, the Airvenue-AG model 519 Wireless Access Point (AP) is a robustly secure, 802.11b/g wireless LAN (WLAN) solution providing encrypted local access, wireless bridging and repeating. The 519 AP also provides load balancing, network roaming, adjustable transmit (Tx) power, IPv6 protocol, data rates up to 54 Mbps, rogue AP detection, etc. These features make the model 519 AP a perfect fit for use in Government wireless infrastructures.

Most importantly, the model 519 is FIPS 140-2 Level 2 Validated™ by NIST, and is in process to be Common Criteria Certified at EAL2+, with plans for EAL4+.

### Practical Applications - Challenging Environments

The Airvenue-AG model 519 can be used as an access point providing mobile users with roaming connectivity at speeds up to 11Mbps, or as a 54Mbps wireless bridge / repeater in either point-to-point, or point-to-multipoint applications.

The 519 AP offers practical solutions to some of Government's toughest infrastructure communication challenges and it does so easily and cost-effectively. For example, installing LAN infrastructure in landmark Government and court buildings can be both difficult and costly using wired LANs. Wired networks are an obtrusive addition to historic government structures. Furthermore, Government staff, administrators and officials require seamless connectivity throughout numerous locations --offices, meeting rooms, courtrooms, and legislative chambers – places in which wired networks can't be easily installed.

Airvenue-AG WLANs eliminate the need for extensive design, labor, and materials associated with cabling, so people can get high-speed connectivity without costly and risky renovation. Airvenue-AG solutions link employees to critical network resources regardless of where they go – in their offices, to legislative chambers, to courtrooms, to remote meeting facilities.



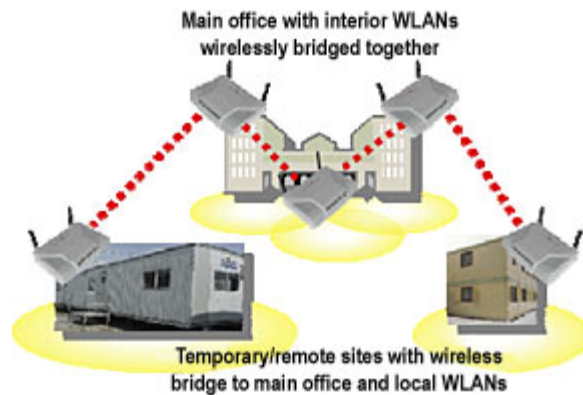
## Cost Effective Solutions

Unexpected situations also demand that Federal, State and Local Government agencies often have to occupy temporary facilities. This is true for emergency situations, heavy work periods such as tax season, and rapidly expanding schools.

Staff and students housed in these areas require standard network connectivity to nearby main offices and information facilities. Yet budgets often do not permit investing in expensive hard wired build outs for short-term space, and running leased lines between permanent and temporary facilities can be an expensive proposition.

Using Airvenue-AG LAN to LAN bridging solutions, temporary workspaces, buildings and classrooms can be networked without costly permanent infrastructure.

Furthermore, model 519 WLANs deliver flexibility that wired networks can not provide when it comes to constant staff moves and rearrangements. Airvenue-AG solutions allow Government organizations to instantly accommodate expanding staff or relocate employees without the high cost of wired additions.



## Tangible Benefits

Airvenue-AG infrastructure solutions are simple and inexpensive to implement and provide quick return on investment compared with wired networking additions. Government agencies can save hundreds of dollars per user each time they add or move staff within an Airvenue-AG wireless network. Wireless networking studies also indicate increased employee connect time of two hours longer a day with an average productivity increase of 22%.

## Airvenue-AG model 519 Wireless Access Point and Bridge

### Wireless Features

- Multiple RFs: 802.11b for WLAN, 802.11g for bridging
- Operation mode: AP, Gateway, Bridge
- Channel number: Fixed / Automatic selection (optimum)
- Adjustable Tx power
- IPv6
- Subnet roaming
- Load balancing of wireless clients
- Security
  - Rogue wireless AP detection with email notification
  - MAC address filtering
  - Enable/disable broadcast SSID
    - Non-FIPS
      - WEP – Authentication type: Open system
      - Shared key, 64 or 128-bit
      - 802.11i / WPA2
      - WPA-PSK
      - WPA-Dynamic
      - AES-CCMP
      - Static AES/3DES
    - FIPS 140-2
      - Diffie-Hellman Key Exchange
      - 128/192/256 bit AES/3DES encryption
      - Dynamic key exchange (Available with 3e-030
      - Security Server option)
- Wireless AP and wireless client activities monitoring
  - Signal strength
  - MAC address listing of wireless clients

### External Ports

- 1 x 10/100 Mbps WAN Ethernet port
- 1 x 10/100 Mbps LAN Ethernet port
- 1 External antenna port (R-SMA)
- 2 USB

### Environment & Safety

- Operating Temperature: 0° C ~ +55° C
- Storage Temperature: -40° C ~ +80° C
- Operating Humidity: 0% ~ 95% non-condensing
- EMI/Safety: FCC class A

### Dimensions

- Weight: 14 ounces (oz)
- Size: 7.75" x 6.5" x 1.5"

### Performance Certifications

- Wi-Fi Compliant
- DoD PKI (future)
- FIPS 140-2 Level 2
- CC Level 2 EAL 2+
- UL 60950
- FCC CFR47 Part 15, Class A
- CE (future)