

AVCW-AP 802.11b Outdoor Access Point

AVCW100, AVCW109, AVCW115



Introduction

The AVCW-AP is the perfect access point for Wireless Bridging, Hotspots as well as Wireless LANs. It has a weatherproof enclosure and can be powered over the Ethernet. Designed for both indoor and outdoor uses this 802.11b, 11Mbps high-speed wireless access point solves many of today's demanding applications.

One can use the AVCW-AP in conjunction with the AVCW wireless bridge to connect computer networks between buildings thereby adding redundancy, or replacing existing leased lines.

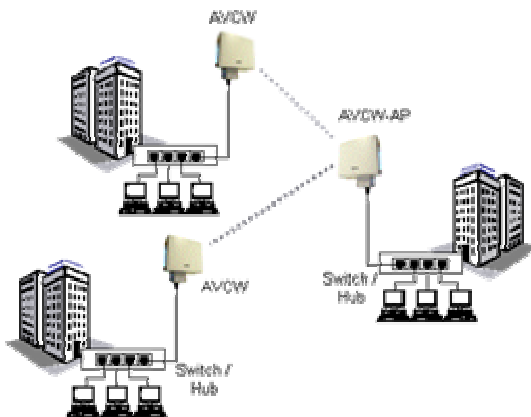
One can also use AVCW-AP as the access point in an indoor wireless LAN network or a hotspot. The power over Ethernet feature of AVCW-AP allows it to be conveniently

installed at the most desirable location to provide the best signal coverage.

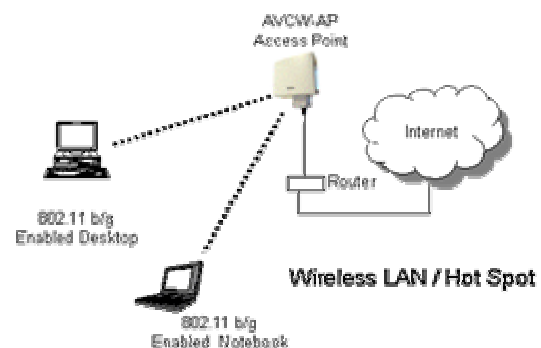
The AVCW-AP employs OTC's Dynamic Key Encryption technology on top of 64/128-bit WEP to provide the maximum amount of security for your network.

Dynamic Key Encryption uses a randomly generated, periodically changing and non-repeating Key to encrypt the data to be wirelessly transmitted, ensuring a sniff-proof wireless network.

The AVCW-AP offers the user a choice of 9dBi or 15dBi, integrated directional antenna, or an integrated RF connector for a wide selection of external antennae. The flexibility of using different antennae allows the AVCW-AP to provide optimal link distances up to 20 miles for both indoor and outdoor applications.



Inter-building Wireless Bridging



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Features

- IEEE 802.11b standard compliant
- 11 Mbps maximum speed
- Automatic speed adjustment adapting to RF link condition
- 64/128-bit WEP security and Dynamic Key Encryption
- MAC address filtering
- IP based management utility
- Power-over-Ethernet
- Antenna options of built-in 9dBi directional antenna (model AVCW-G-109) or 15dBi directional antenna (model AVCW-G-115), or RF connector for external antenna (model AVCW-G-100) connection
- Weatherproof enclosure

Benefits

- Fast: 6 times faster than T-1 and ADSL connection speed
- Easy: plug-and-play wireless solution
- Secure: Network access and information privacy protected by 64/128-bit WEP and Dynamic Key Encryption
- Flexible: optimum signal coverage with antenna choices of built-in 9dBi or 15dBi antenna, or RF connector for external antenna connection
- Convenient: power-over-Ethernet

Specifications

- RF
 - Operating Frequency Range: 2.4 – 2.4835 GHz (US and Europe), 2.4 –2.497 GHz (Japan)
 - Channels: 11 (US), 13 (Europe) and 14 (Japan)
 - Data Rate: 11, 5.5, 2 and 1 Mbps. Fixed or Auto-selection
 - Modulation: CCK/ DQPSK/DBPSK
 - Antenna: 9dBi built-in patch (AVCW109), 15dBi built-in patch (AVCW115) or RF connector for External Antenna (AVCW100)
 - Transmission Power: 14dBm typical at antenna input
 - Receiving Sensitivity: -80dBm @ 10⁻⁵ BER
- Network Interface: 10/100BaseT RJ-45
- Security: 64/128 bit WEP, Dynamic Key Encryption
- Management: IP-based utility
- Environment:
 - Operating Temperature: -10 to 65°C
 - Operating Humidity: 5% -100%. Rain proof
- Physical Dimension:
 - AVCW100/109: 5.375 inches x 4.75 inches x 2 inches
 - AVCW115: 12 inches x 12 inches x 2.75 inches
- Certification: FCC, CE

Link Distance versus Radio Antenna Gain*

	AVCW100 with 11dBi External Omni Antenna	AVCW109 with 9dBi Built-in Directional Antenna	AVCW115 with 15dBi Built-in Directional Antenna	AVCW100 with 24dBi External Directional Antenna
AVCW209 with 9dBi Built-in Directional Antenna	1.1 Mile (1.8 Km)	1Mile (1.86Km)	1.6 Mile (2.6 Km)	4.6 Mile (7.4 Km)
AVCW215 with 15dBi Built-in Directional Antenna	2.1 Mile (3.3 Km)	1.6 Mile (2.6 Km)	3.3 Mile (5.3 Km)	9.1 Mile (14.6 Km)
AVCW200 with 24dBi External Directional Antenna	5.7 Mile (9.2 Km)	4.6 Mile (7.4 Km)	9.1 Mile (14.6 Km)	20 Mile (32 Km)

* Actual link distance may vary depending on environment.



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