



SuperAP™ 510g 500MW Rugged Access Point/Bridge

54Mbps High Powered Wi-Fi with Tamper/Weather Resistant Case

ValuePoint™ Networks high speed (54Mbps) high power 802.11b/g compliant SuperAP 510g 500mWatt is designed especially for outdoor Wi-Fi deployments where large coverage is required. It is a **Rugged Access Point, with 500 mWatt transmit output and industry standard Power over Ethernet**. Ideal for outdoor applications where industrial hardened equipment is required, we use a NEMA style enclosure, lockable to any flat surface. The SuperAP 510g 500MW can act as an Access Point, Bridge repeater, or combination Access Point and Bridge repeater. Pricing for the 510g 500MW is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



Hardware Features

The SuperAP 510g 500MW comes with an industry standard female N-bulkhead connector so you can use a wide assortment of the best antennas available. Your backbone Ethernet cable connects to the AP through a moisture-proof gland and the entire unit is sealed with a heavy-duty gasket. The unit is entirely sealed from the harshest elements outdoors, tampering indoors, and is suitable for all applications.

The 510g 500MW supports IEEE 802.3af 48Volt Power over Ethernet. It uses external *replaceable antennas*, enabling it to be used in a wide variety of special applications where the wireless output needs to be tailored for the environment. Special high-gain, omni-directional, directional, or Yagi antennas can be attached to the unit using standard N-type cabling.

The 510g 500MW also has *high receive sensitivity up to -102 dBm* enabling extremely long point to point and client to AP applications.

User Authentication

Secure authentication based on industry standards

The 510g 500MW incorporates 802.1x/Radius-based authentication features that interoperate with a back-office Radius server to provide authentication of each user. Radius-based authentication means a SuperAP 510g is compatible with a wide variety of shared usage and public access applications. In addition, the 510g 500MW can authenticate users based on their MAC address if desired.





Security and Management

Security and Management

Highly secure and manageable

In addition to Radius-based and MAC-based authentication in the Advanced Version, the 510g 500MW supports the 64-bit and 128-bit Wireless Encryption Protocol (WEP), Wireless Protected Access (WPA), Static WPA-PSK, and disabling of SSID broadcast. Specific packet filtering by Ethernet type, protocol, or port is also supported.

The 510g 500MW is easy for administrators to setup through Web-based management, or our Windows-based network manager. Additionally, management can be done via SNMP v1, v2c, 802.1x and 802.1d MIBs. It is UPnP-enabled and supports remote firmware upgrades via TFTP or HTTP file-based upload.

Extended Network Range

Repeater functionality

The 510g 500MW is able to operate as a repeater in addition to an access point, allowing it to communicate with other compatible AP/routers to form a Wireless Distribution System. This greatly extends the reach of the wireless network. Using directional antennas and the unit's powerful 500mW output, a range of up to 20 miles line of sight is achievable. Up to six WDS links can be established from a single unit.

Compatibility

Wi-Fi

The 510g 500MW is fully compatible with the Wi-Fi standard, ensures the usability with any Wi-Fi compatible wireless equipped device. Wi-Fi is the fastest growing standard for Internet access and is supported on a vast number of PCs today.

About ValuePoint Networks

ValuePoint is a manufacturer of Wi-Fi products for service providers, small and medium sized businesses, and the shared access market. ValuePoint's products are designed for the unique needs of Service Providers, Wireless ISPs, Billing Providers, and Venue Operators in the burgeoning mobile access space. This includes Airports, Hotels, Multi-Tenant Units, Multi-Dwelling Units, Pay Telephones, and Storefronts. For more information on ValuePoint's Rugged Access Points and Wireless Gateways, please visit us online.

www.valuepointnet.com





Technical Specifications

Wireless

- IEEE 802.11b/g
- Frequency band: 2.4-2.4835GHz
- Modulation Techniques: DSSS (OFDM, CCK, DQPSK,DBPSK)
- Data Rates: OFDM@54Mbps, CCK@11/5.5Mbps, QPSK@2Mbps and DBSK@1Mbps
- Media Access Protocol: CSMA/CA with ACK, RTS/CTS
- Access Point Range: 3000 meter line of sight (client dependent)
- WDS Repeater Range: 25,000 meter line of sight (antenna dependent)
- 500 mWatt transmit power at the N-connector
- OFDM Sensitivity: -76dBm @54Mbps ~ -96dBm@12Mbps
- CCK Sensitivity: -92dBm @11Mbps ~ -102dBm@1Mbps

Networking

- IEEE 802.3u 10/100BaseTX for Ethernet LAN
- DHCP Client and Server
- Static DHCP mappings
- 802.1d Bridging functionality
- UPnP
- Up to 6 WDS Repeater links

Security

- 802.1x RADIUS based security
- MAC based access control
- 64/128 bit RC4 WEP
- WPA, WPA-PSK

Management

- Web-based management
- Wireless Network Manager Application for Windows
- System logging
- SNMP v1/v2
- MIB II with traps, 802.1x, 802.1d MIBs
- Telnet

Interfaces

- 1 10/100M Ethernet LAN port

Compatibility

- Works with any Wi-Fi certified interfaces

Operating Environment

- Operating Temperature: -20 to 70 C
- Humidity: Max. 95% non-condensing

Electrical

- 802.3af 48 Volt Power Over Ethernet

Regulatory Approvals

- FCC part 15 Class B, VCCI Class B, CE Mark, UL

Advanced Version Enhanced Features

- AP load balancing
- Wireless Client Isolation
- Association Control

Warranty

- One year parts and labor

