

SuperAP® 550g

Rugged AP/Bridge

High Power Wi-Fi with Tamper and Weather Resistant Case

ValuePoint™ Networks 802.11b/g compliant SuperAP 550g is designed for distributed Wi-Fi deployment in hotels, apartment buildings, outdoor, or industrial applications. It is an extremely powerful **Rugged Access Point, with up to 500 mWatt transmit output** and industry standard Power over Ethernet. Ideal for indoor or outdoor applications where industrial hardened equipment is required, we use a NEMA style enclosure, lockable to the wall or ceiling, UL2043 rated for use in plenums, and vibration certified for high vibration environments like vehicular mounting. The SuperAP 550g can act as an Access Point, Bridge repeater, AP Client, or combination Access Point and Bridge repeater. Pricing for the 550g is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



Hardware Features

The SuperAP 550g comes with an industry standard 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. Thus the unit is entirely sealed from the harshest elements and is suitable for indoor or outdoor applications. In addition, the 550g has a special vibration certification for high vibration environments.

The 550g supports IEEE 802.3af 48Volt Power over Ethernet. It uses external replaceable antennas as well as Transmit Power control, enabling it to be used in a wide variety of special applications where the wireless output needs to be controlled for the environment. Special high-gain, omni-directional, directional, or Yagi antennas can be attached to the unit using standard N-type cabling.



User Authentication

Secure authentication based on industry standards

The 550g incorporates 802.1x/RADIUS-based authentication features that interoperate with a back-office RADIUS server to provide authentication of each user. 802.1x-based authentication means a 550g is compatible with a wide variety of shared usage and public access applications.

In addition, the AP can authenticate users based on their MAC address if desired.

Security and Management

Highly secure and manageable

In addition to RADIUS-based and MAC-based authentication in the Advanced Version, the 550g supports the 64-bit and 128-bit Wireless Encryption Protocol, WPA/WPA2, and disabling of SSIDs.

The 550g is easy for administrators to setup through Web-based management, or our Windows-based network manager. Additionally, management can be done via SNMP V 1, V 2, 802.1x and 802.1d MIBs. It is UPnP-enabled and supports remote firmware upgrades.

The 550g keeps tracks of all clients connected and their signal strengths. For preventative maintenance, the 550g can be set to re-boot automatically at regular off peak intervals.

Extended Network Range

Repeater functionality

The 550g 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 antenna and the unit's powerful 500 mW radio, a range of up to 15 miles is possible. Aligning directional antennas is easy using built-in antenna alignment assistance. Up to six WDS links can be established from a single unit.

AP client mode

Operators can extend the network even further by configuring the SuperAP 550g as a client device, compatible with any 802.11b/g compliant Access Point. AP client mode includes RSSI for link and antenna position monitoring as well as built-in site survey capability.



Compatibility

Wi-Fi

The 550g 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 Networks is the foremost manufacturer of price leading Gateway Controllers, Rugged Access Points, and outdoor Mesh gear.

ValuePoint products are used in Hospitality, MTU/MDU, industrial, WISP, outdoor, hotspot, municipal, and enterprise applications. Using ValuePoint gear, you can light up more for less, reduce your capital expenditures, and improve your Return on Investment.

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Technical Specifications

Wireless

- IEEE 802.11b/g
- 500 mWatt transmit power at N-connector
- Transmit power control
- Frequency band: 2.4-2.4835GHz
- Media Access Protocol: CSMA/CA with ACK
- Data Rates: OFDM@54Mbps, CCK@11/5.5Mbps, QPSK@2Mbps and DBSK@1Mbps
- AP Range: 2000 meters line of sight (client dependent)
- WDS Range: 20,000 meters line of sight (antenna dependent)
- Auto Channel Scanning and Selection
- Power Saving Mode – extends clients' battery life
- 87 dBm - 81 dBm receive sensitivity b mode
- 86 dBm - 68 dBm receive sensitivity g mode

Networking

- DHCP Client and Server
- 6 WDS repeater links
- AP client mode
- 802.1d Bridging functionality
- UPnP

Security

- MAC based access control
- 64/128 bit RC4 WEP
- Wireless Protected Access (WPA-PSK, TKIP and AES)(WPA2-PSK, TKIP and AES)



Management

- Web-based management
- Antenna alignment and RSSI monitoring
- Web-based or TFTP firmware upgrade
- System logging (local or remote)
- SNMP v1/v2, MIB II with traps, 802.1x, 802.1d MIBs
- Telnet

Interfaces

- 1 10/100M Ethernet LAN port

Operating Environment

- UL 2043 Plenum rated
- NEMA and IP 68 rated for outdoor operation
- High vibration certification
- Operating Temperature: -20 to 70 C
- Storage Temperature: -20 to 70 C
- Humidity: Max. 95% non-condensing
- 10 x 6 x 2.3 In. / 3 Lbs.

Electrical

- 802.3af 48 Volt Power Over Ethernet
- AC Input: 100 – 240 VAC, 50/60 Hz, 0.35A; Output: 5V, 2.5A

Regulatory Approvals

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

Advanced Firmware Features included

- 802.1x Port-based Network Access Control (EAP-MD5, EAP-TLS)
- AP load balancing
- Wireless Client Isolation
- Association Control

Warranty

- One year parts and labor
- 30 day satisfaction guaranteed