



## SuperAP® 550G IA-12 V2

## Rugged AP/Bridge

### High Power Wi-Fi with Integrated Directional Antenna

ValuePoint™ Networks SuperAP 550G IA-12 is designed for indoor/outdoor Wi-Fi deployments in hotels, apartment buildings, outdoor, or industrial applications. It is an Access Point, with an adjustable 500 mW radio output, and an entirely enclosed 12 dBi Flat Panel Antenna. Total output is up to 38 dBi. This unit is packaged in the same compact form factor as the SuperAP, available with a side mount, perfect for mounting at the end of hallways, above ceilings, or on the outside of a building. The SuperAP 550G IA-12 can act as an Access Point, Bridge, or an AP client. Pricing for the 550G IA-12 is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



### Hardware Features

The SuperAP 550G IA-12 comes with a versatile integrated flat-panel 12 dBi 120 degree directional antenna and a multi-position secure bracket. Your backbone Ethernet cable connects to the AP through a moisture-proof gland and the entire unit is sealed.

The 550G IA-12 supports Power over Ethernet. It uses *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.

### User Authentication

#### *Secure authentication based on industry standards*

The 550G IA-12 Advanced Version 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 550G IA-12 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 550GIA-12 keeps tracks of all clients connected and their signal strengths. For preventative maintenance, the 550GIA-12 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 300 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.

**[www.valuepointnet.com](http://www.valuepointnet.com)**

### **Technical Specifications**

#### **Wireless**

- IEEE 802.11b/g
- 500 mWatt RF transmit power plus 12 dBi flat panel antenna
- 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
- Mesh OLSR protocol
- 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
- Operating Temperature: -20 to 70 C
- Storage Temperature: -20 to 70 C
- Humidity: Max. 95% non-condensing
- 10.5 x 6 x 6 In. / 3.2 Lbs.

**Electrical**

- 48 V Power Over Ethernet (POE)

**Regulatory Approvals**

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

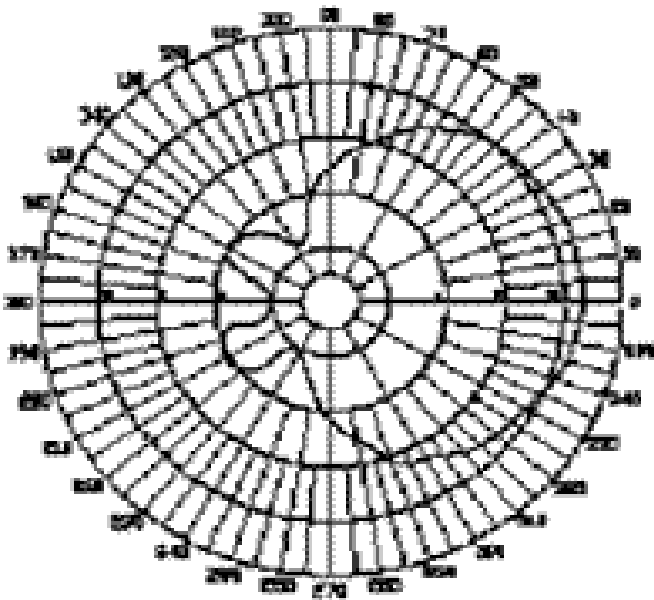
**Advanced Firmware Features included**

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

**Warranty**

- One year parts and labor

## H-Plane Field Pattern



## E-Plane Field Pattern

