



## SuperAP™ 530gIA-12 Rugged Access Point/Bridge

### Public Access Wi-Fi with Integrated Directional Antenna



ValuePoint™ Networks SuperAP 530g IA-12 is designed for **indoor/outdoor** Wi-Fi deployments in a hotel, apartment building, airport, or other public venue. It is an Access Point, with an adjustable **300 mW** radio output, and an entirely enclosed 12 dBi Flat Panel Antenna. **Total output is up to 36 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 530g IA-12 can act as an Access Point, Bridge, or an AP client. Pricing for the 530g IA-12 is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.

#### Hardware Features

The SuperAP 530g 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 530g IA-12 supports **IEEE 802.3af 48Volt 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 530g 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 530g IA-12 is compatible with a wide variety of shared usage and public access applications.

In addition, the 530g IA-12 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 530g IA-12 supports the 64-bit and 128-bit Wireless Encryption Protocol, and disabling of SSIDs.

The 530g IA-12 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.

## Extended Network Range

### *Repeater functionality*

The 530g IA-12 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. With its built-in antenna and powerful 300 mW radio, a range of 10 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 530g IA-12 as a client device, compatible with any 802.11b 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 530g IA-12 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](http://www.valuepointnet.com)





## Technical Specifications

### Access Point Specification

#### Wireless

- IEEE 802.11b/g
- Frequency band: 2.4-2.4835GHz
- Modulation Techniques: DSSS (CCK, DQPSK, DBPSK)
- Media Access Protocol: CSMA/CA with ACK
- Data Rates: OFDM@54Mbps, CCK@11/5.5Mbps, QPSK@2Mbps and DBSK@1Mbps
- AP Range: 2000m, 6600ft line of sight (client dependent)
- WDS Range: 15,000m, 49,000ft line of sight
- 300 mWatt transmit power with Transmit power control
- 87 dBm - 81 dBm receive sensitivity b mode
- 86 dBm – 68 dBm receive sensitivity g mode
- Configurable DTIM and Beacon Interval

#### 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

#### 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

#### Compatibility

- Works with any Wi-Fi certified interfaces

#### Operating Environment

- Operating Temperature: -20 to 70 C, -4 to 158 F
- Storage Temperature: -20 to 70 C, -4 to 158 F
- 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 Firmware Features

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

### Antenna Specification

**Type:** Panel antenna

**Linear:** V or H

**Frequency:** 2400-2483.5MHz

**Impedance:** 50 ohm

**Antenna Pattern:** 120 Degrees H Plane

**VSWR:**  $\leq 2.0$

**Gain:** 12 dBi

**Power handling:** 10 Watt

**Size:** 166\*140\*30mm, 6.5\*5.5\*1.2in

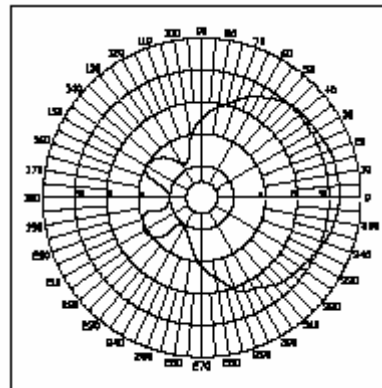
**Weight:** 400g, 11.1oz(include swivel base).

**Operation temp:** -30 to 60 C, -22 to 140 F

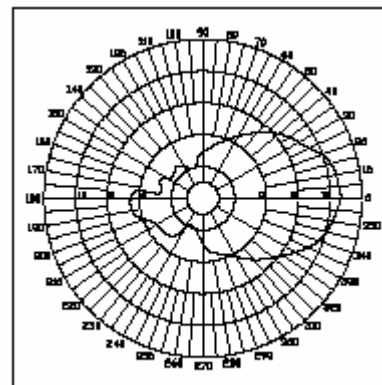
**Material:**

- Cover & Base: Injection ABS
- Mount: Stainless steel, Electro-plating

H-Plane



E-Plane



#### Warranty

- One year parts and labor



