

## SuperAP® 530g IA-18

## Rugged AP/Bridge

### High Power Wi-Fi with Integrated 18dBi Directional Antenna

ValuePoint™ Networks SuperAP 530g IA-18 is designed for **indoor/outdoor** Wi-Fi deployments in a hotel, apartment building, outdoor, or industrial applications. It is an Access Point, with an adjustable **300 mW** radio output, and an entirely enclosed 18 dBi Flat Panel Antenna. **Total output is up to 42 dBi for point-to-point applications.** This unit is available in **wall or pole mount**, perfect for mounting outdoors on walls or poles. The SuperAP 530g IA can act as an Access Point, Bridge repeater, AP Client, or combination Access Point and Bridge repeater. Pricing for the 530g IA is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



### Hardware Features

The SuperAP 530g IA-18 comes with a versatile integrated flat-panel 18 dBi 50 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 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 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 is compatible with a wide variety of shared usage and public access applications.

In addition, the 530g IA 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 supports the 64-bit and 128-bit Wireless Encryption Protocol, WPA/WPA2, and disabling of SSIDs.

The 530g IA 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 530g IA keeps tracks of all clients connected and their signal strengths. For preventative maintenance, the 530g IA can be set to re-boot automatically at regular off peak intervals.

## Extended Network Range

### Repeater functionality

The 530g IA 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 the powerful 300 mW radio, a range of 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 530g IA 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 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

### 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
- 300 mWatt transmit power with Transmit power control plus 18 dBi flat panel antenna
- Data Rates: OFDM@54Mbps, CCK@11/5.5Mbps, QPSK@2Mbps and DBSK@1Mbps
- AP Range: 2000m, 6600ft line of sight (client dependent)
- WDS Range:20,000m, 66,000ft line of sight
- 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
- 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\
- 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**

- 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
- 13 x 11.5 x 3.5 In. / 6.6 Lbs.

**Electrical**

- 802.3af 48 Volt Power Over Ethernet
- AC Input: 100-240 VAC, 50/60Hz,.35A;Output:5V, 2.5A

**Regulatory Approvals**

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

**Advanced Features**

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

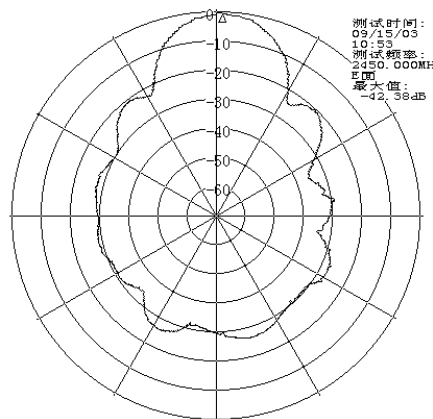
**Antenna Specification**

**Operation temp:** -30 to 60 C, -22 to 40 F

**Material:**

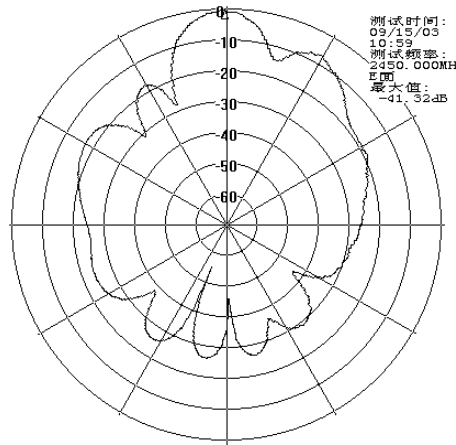
- Cover & Base: Injection ABS
- Mount: Stainless steel, Electro-plating

H-Plane





E-Plane



**Warranty**

One year parts and labor  
30 day satisfaction guaranteed