

## MultiAP™ 770g

## 1 Watt MultiSSID Rugged AP

### High Power Wi-Fi with Rugged Case and Multi-SSID VLAN

ValuePoint™ Networks 802.11b/g compliant MultiAP 770g is designed for **MultiSSID/VLAN** Wi-Fi deployments outdoors or indoors. It is an extremely **Rugged Access Point, with up to 1 Watt (30 dbm) transmit output and industry standard Power over Ethernet**. Ideal for outdoor or indoor applications where industrial hardened equipment is required, we use a NEMA style aluminum enclosure, lockable to the wall, ceiling, or pole, and for use in plenums. The MultiAP 770g supports up to 31 independent SSIDs each with its own security settings, and 31 VLANs. Pricing for the 770g is more cost effective than ever before, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



### Hardware Features

The MultiAP 770g 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 outdoor applications.

The 770g 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 controlled for the environment. Special high-gain, omni-directional, directional, or Yagi antennas can be attached to the unit using standard N-type cabling. The 770g comes with 2 LAN ports (1 data, 1 PoE/data) for daisy chaining multiple units.

### User Authentication

Secure authentication based on industry standards

The 770g supports 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 770g is compatible with a wide variety of shared usage and public access applications.

## **Security and Management**

### **Highly secure and manageable**

In addition to Radius-based and MAC-based authentication, the 770g supports the 64-bit and 128-bit Wireless Encryption Protocol, WPA-TKIP, WPA-PSK, and WPA2-PSK with AES, 802.1x and disabling of SSID broadcast. Security settings are independent per SSID, up to 31 SSIDs. Layer 2 Isolation for the entire AP can be enabled.

Management can be enabled or disabled from wireless clients.

The 770g is easy for administrators to setup through Web-based management. Additionally, management can be done via Telnet, SSH, Console message log, Remote Syslog and SNMP v1/v2/v3, 802.1x and 802.1d MIBs. It supports remote firmware upgrades via ftp file transfer. NTP Server support.

## **Quality of Service**

The 770g uses 802.1p priority tagging and offers three QoS levels, gold, silver, and bronze mapping to Voice quality, excellent effort, and best effort. Each SSID can be set for its own separate QoS level, allowing certain SSIDs to get highest priority.

## **Compatibility**

### **Wi-Fi**

The 770g 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.

### **Multiple Independent SSIDs**

#### **Provides multiple virtual networks**

The 770g's 31 SSIDs can be configured as 31 independent networks. These networks can have unique or common assignments of WiFi security, VLAN security, and IP networking ranges. Each SSID has a real, non-overlapping BSSID MAC Address for maximum compatibility with WiFi clients.



## 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

- Up to 31 independent ESSID/BSSID
- IEEE 802.11b/g
- Frequency band: 2.4-2.4835GHz
- Media Access Protocol: CSMA/CA with ACK
- Modulation Techniques: DSSS, OFDM, CCK, DQPSK, DBPSK
- Data Rates: OFDM@54Mbps, CCK@11/5.5Mbps, QPSK@2Mbps and DBSK@1Mbps
- AP Range: 2000 meters line of sight (client dependent)
- 1 Watt (30 dbm) transmit peak power at N-connector
- OFDM Receive Sensitivity: -80dBm @54Mbps ~ -96dBm@12Mbps
- CCK Receive Sensitivity: -92dBm @11Mbps ~ -102dBm@1Mbps

### Networking

- Up to 31 independent VLANs
- DHCP Client and Server. Separate DHCP range per SSID
- WDS bridging

### Security

- 64/128 bit RC4 WEP
- 802.1x Port-based Network Access Control (EAP-MD5, EAP-TLS)
- Wireless Protected Access (WPA)
- WPA2 AES

### Management

- Web-based management
- FTP firmware upgrade
- Message logging
- SNMP v1/v2/v3, MIB II with traps, 802.1x, 802.1d MIBs
- Telnet
- SSH
- Remote syslog

### Interfaces

- 2 10/100M RJ-45 Ethernet LAN ports (1 PoE/Data, 1 Data)



**Compatibility**

- Works with any Wi-Fi certified interfaces
- 31 Non-overlapping unique BSSIDs

**Operating Environment**

- NEMA4 and outdoor rated
- Aluminum case for use in plenums
- 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

**Regulatory Approvals**

- FCC Part 15C
- CE mark (pending)

**Warranty**

- One year parts and labor
- 30 day satisfaction guaranteed