

The Gemtek Systems P-560 Plus Hotspot-in-a-box is a high-performance and highly integrated Access Controller for public access networks. One single P-560 Hotspot-in-a-box can serve up to 100 simultaneous users and can create up to 200 subscribers which takes control over authentication, accounting and routing to the Internet as well as to the operator's central office. The high-performance architecture of the product enables scalable access solutions for small venues like cafes and restaurants as well as for medium and large locations like hotels, hospitals or enterprises.

#### Access Control Gateway

The P-560 Plus supports multiple secure authentication methods from standard web browser login (Universal Access Method), MAC authentication, to 802.1x/EAP with passwords, certificates, SIM cards, POP3 and LDAP. The integrated real-time accounting system is based on standard RADIUS/EAP and supports various billing plans from prepaid, pay-per-time, per-volume, per-use or flat rate. P-560 Plus has been tested for interoperability with various OSS/BSS systems providing either centralized or decentralized access control.

#### Built-in AAA Server with e-Billing

Advanced built-in AAA with e-Billing systems enable hotspot owner to manage customers with predefined access and billing plans for post-pay Subscribers. Both built-in account and Telco roaming RADIUS account are supported simultaneously.

#### Multiple BSSID "Virtual AP" technology

P-560 Plus can create up to 16 Basic Service Sets(BSS) on a single device. These basic service sets can be looked as "virtual APs", and each can be configured independently to support range of security policies, authentication methods, RADIUS servers



#### Customizable Login Pages

Service providers can benefit from the flexible web redirection service of the Gemtek-Systems Access Controller. P-560 Plus provides a set of location, browser, and user-specific information to the backend system to enable value added personalized services by the WISP. Detailed location information is available via Https/XML interfaces. Web pages can be either stored locally on the P-560 Plus or remotely on a web portal server.

#### Zero Configuration for Subscribers

P-560 Plus makes internet access very easy and user-friendly for the end-user. Subscribers will be redirected to the providers welcome page automatically regardless of their PC configuration. The UAT (Universal Address Translation) feature will accept and translate fixed company IP settings and web proxy configurations - so end-users do not have to reset their corporate IP or web settings. Equally, outgoing subscriber e-mails can be redirected to the operator's mail server in order to facilitate e-mail forwarding for foreign subscribers. The recipient sees the message as if it was sent from the users home provider.

#### Remote Management

You can choose between a variety of different management interfaces to remotely configure, monitor, or update the P-560 Plus and the access devices behind the controller. The P-560 Plus can be managed via SNMP, https, SSH or telnet.

#### Key Feature

- ▲ IEEE 802.11g/b High-Performance Wi-Fi Access Point
- ▲ Support Multiple BSSID up to 16 "Virtual AP"
- ▲ Layer2 Isolation
- ▲ WPA/WPA2 (Wi-Fi Protected Access) support
- ▲ Adjustable RF output power support
- ▲ User authentication with web browser log-in (UAM) and 802.1x/EAP support, Smart Client support, MAC authentication
- ▲ Built-in AAA with e-Billing and pre-paid systems (create up to 200 user accounts)
- ▲ AAA Radius client and proxy server with EAP support
- ▲ Per-user bandwidth management (on AC or via RADIUS)
- ▲ SSL protected access, WISPr compatible log-on via web browser with SSL/TLS, iPass client support
- ▲ Customizable user welcome, login and logout web interface, XML support (internal, external) and HTML support
- ▲ IP routing with IPsec and PPTP pass-through, NAT/NAPT, Port-forwarding
- ▲ WAN protocols: PPPoE, PPTP, DHCP client
- ▲ VPN Client, PPTP/MPPE, GRE
- ▲ Management subnet for remote AP management
- ▲ Universal Address Translation (UAT), web proxy support
- ▲ Walled garden area (authentication free web sites)
- ▲ E-mail redirection
- ▲ DHCP server/relay/client
- ▲ Remote management via SNMP v1, 2c, 3, SNMP proxy, https, SSH, telnet, console
- ▲ Support up to 100 simultaneous users



## Wireless Specification

- Standard IEEE 802.11g (OFDM), IEEE 802.11b (DSSS), 2.4GHz ISM band, Wi-Fi compliant
- Data Rate
  - 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
  - 802.11b: 11Mbps, 5.5Mbps, 2, 1Mbps (auto fall back)
- Client Stations Max. 30 simultaneous connected wireless client stations
- Typical range 50 meters in indoor environments, up to 300m outdoors
- Transmit Power Max. 17 dBm (EIRP)
- "Virtual AP", up to 16 multiple Basic service set
- Antennas Two 2dBi dipole antennas with space diversity, SMA connectors.
- Wireless security: WEP (64bits/128bits) WPA/WPA2 (TKIP/AES)

## Related Product

Controller : G-4200

Access Point : P-520 54Mb Operator Access Point  
P-720 Dual-Band 2.4GHz/5GHz outdoor AP

## Physical Environment

### Interface

Ethernet interface : LAN : 4 switched ports 10/100Base\_T/Tx, (RJ-45), auto-sensing  
WAN : 1 port 10/100Base\_T/Tx(RJ-45), auto-sensing

WLAN interface WLAN : two RP-SMA antenna connectors

Power Power : 5V DC, 2.5A

### Physics Characteristics

Dimension: 195 mm x 160 mm x 27 mm

Weight: 450g

### Environment Characteristics

	Temperature	Humidity
Operating	0 oC to 55oC	10% to 95%, non-condensing
Storage	-10 to 65 oC	5% to 95% (non-condensing)

### Power Supply

External power adapter, input: 100-230V AC, 50-60Hz;  
output: 5V DC, 2.5A

### Management

Interface: Https, Telnet, SSH, SNMP (MIB II, private MIB)

Software Upgrade: Remote firmware update via HTTPs, FTP

Restore Default: Remote reset / Manufacturing reset

### LEDs

5 LEDs Power: WAN Link, Online, WLAN link, 4x LAN link

### Warranty

1 year

## Package Contents

- P-560 Plus Hotspot in a Box
- CD with KickStart Utility, User Manual (\*.pdf)
- Printed Warranty Card (1 year)
- Ethernet Cat.5 Cable
- 5V/2.5A Power Supply
- Antenna x 2

