Gemtek systems

BROWAN

P-560 Plus

Hotspot Access Point

A scalable solution for Enterprise and Hotspots

V2.2

The P-560 Plus Hotspot Access Point is a high-performance and highly integrated Access Controller for public access networks. P-560 Plus can serve up to 100 simultaneous users for authentication, accounting and routing. The high-performance architecture of the product enables scalable access solutions for small venues like cafes and restaurants or medium and large locations like hotels, hospitals or enterprises.

Multiple Authentication Methods and Accounting

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 with e-Billing and Pre-Paid

Advanced built-in AAA with e-Billing enable private hotspot owner to setup a public access service without any RADIUS Server . Hotspot owner can manage customers with predefined access and billing plans for post-paid subscribers. Both built-in accounts and Telco roaming accounts 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 various security policies, authentication methods,and RADIUS servers

Backend Integration

The P-560 Plus is compliant to the recommendations of the Wi-Fi Alliance 'Best Current Practices for Wireless Internet Service Provider Roaming' (WISPr). P-560 Plus has been tested for interoperability with various leading RADIUS and Web application servers (e.g. Funk, AirPath, WiFicom, iPass). For security purposes all AAA and management traffic to the network operation center can be tunneled and encrypted by the internal VPN gateway.

Customizable Login Pages

Service providers can benefit from the flexible web redirection service. P-560 Plus provides a set of location, browser, and user-specific information to the backend system to enable value added personalized services provided 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.

Remote Management

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

Feature Highlight

- ▲ Support up to 16 BSSID - "Virtual AP"
- ▲ Wired Equivalent Privacy (WEP) using static or dynamic key of 64 or 128 bits
- ▲ User authentication with UAM (Universal Access Method), 802.1x/EAPoLAN, MAC Address,
- ▲ AAA Radius client and proxy server with EAP support
- ▲ Built-in AAA server with e-Billing up to 500 user accounts
- ▲ Support up to 100 simultaneous users.
- ▲ Universal Address Translation (UAT), web proxy support
- ▲ WISPr compatible log-on via web browser with SSL/TLS, iPass client support
- ▲ Unlimited White List (walled garden area, free web sites)
- ▲ Customizable welcome, log-on, and log-off pages, XML support (internal, external) and HTML support
- ▲ E-mail redirection
- ▲ IP routing with IPsec and PPTP pass-through, NAT/NAPT, Port-forwarding
- ▲ Per-user bandwidth management via RADIUS
- ▲ PPPoE, PPTP, DHCP client on WAN interface
- ▲ DHCP server/relay/client
- ▲ VPN client PPTP/MPPE/GRE
- ▲ NTP for clock Synchronization
- ▲ Remote management via SNMP v1, 2c, 3, SNMP proxy, https, SSH, telnet, console

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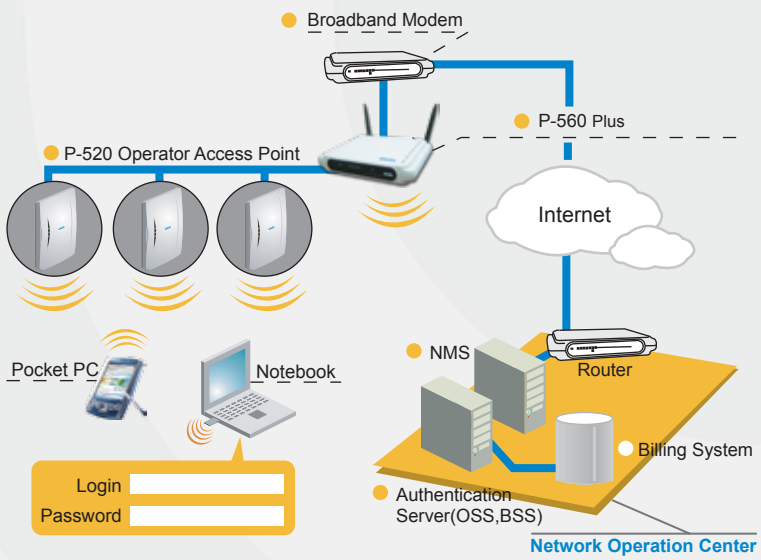
Wireless Specification

Radio	Single standard IEEE 802.11g (OFDM), IEEE 802.11b (DSSS), 2.4GHz ISM band, Wi-Fi compliant
Data Rate Supported	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Frequency Band	802.11b/g 2.4-2.483GHz, North American Channel (1-11)
Modulation	802.11b: DSSS 802.11g: OFDM
Receive Sensitivity	802.11g Nominal Temp Range: - 6Mbps 10-5 BER @ -90dBm, typical - 9Mbps 10-5 BER @ -89dBm, typical - 12Mbps 10-5 BER @ -88dBm, typical - 18Mbps 10-5 BER @ -87dBm, typical - 24Mbps 10-5 BER @ -83dBm, typical - 36Mbps 10-5 BER @ -80dBm, typical - 48Mbps 10-5 BER @ -74dBm, typical - 54Mbps 10-5 BER @ -70dBm, typical 802.11b Typ. -88 dBm @ 11Mbps, typical Typ. -91 dBm @ 5.5Mbps , typical Typ. -92 dBm @ 2Mbps , typical Typ. -93 dBm @ 1Mbps , typical
Transmit Power Settings(Maximum power varies as per country regulation)	Max 17dBm ±1.5dBm @6~24Mbps Max 13dBm ±1.5dBm @54 Mbps (Maximum power will vary by channel, rate and regulatory domain)
Antenna	Two 2dBi dipole antennas with space diversity, SMA connectors



Application

Product Specification

Interface

LAN : 4 switched ports 10/100Base_T/Tx,(RJ-45), auto-sensing
WAN : 1 port 10/100Base_T/Tx(RJ-45), auto-sensin

Physics Characteristics

Dimension:195 mm x 160 mm x 27 mm
Weight:450g

Environment

	Temperature	Humidity
Operating	0 ℃ to 55℃	10% to 95%, non-condensing
Storage	-20 ℃ to 75 ℃	5% to 95% (non-condensing)

Power Supply

Power Adapter: input: 100-240V AC, 50-60 Hz and
output: 5V DC, 2.5A

LEDs

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

Network Management

Remote Management	HTTPs, Telnet, SSH , SNMP (v1, v2c)iASNMP Proxy, and Fully manageable using Gemtek Systems NMS (S-4000/S-6000)
MIPs	MIB II for IP (RFC 1213), Ethernet MIB, GSI Private MIB, 802.11 MIB
NTP Synchronization	RCF 1305
Syslog	Remote Activity Syslog
Reset	Remote reset / Manufacturing reset
Firmware Upgradeable	Remote Firmware upgrade via HTTPs

Certifications & Compliance

Radio	FCC Part 15
EMI and Susceptibility	FCC Part 15.107 & 15.109 Class B, EN 60950 (product safety), EN 300 328, EN 301 489-1/1-17, EN 301 893

Warranty

Two years

Related Product

Access Controller	G-4200 SMB Public Access Controller
Access Point	P-520 Operator Access Point P-720 Dual Radio 2.4G/5GHz Access Point P-780 Dual Radio 2.4G/5GHz Outdoor Access Point
PoE Device	E-820 Managed Power-over-Ethernet Switch

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