

Flexibility and high performance

The Gemtek Systems P-720 is a high performance indoor AP for multiple service. The two dual-band radios and AP/Bridge working mode supply the furthest flexibility for wireless applications:

- ▲ Simultaneously supports 802.11a/b/g in one platform
- ▲ Mix of AP and Bridge configuration: working simultaneously, blanketing WLAN coverage with high-speed bandwidth
- ▲ Dual AP configuration: for high client density environment
- ▲ Dual Bridge (repeater) configuration: for Public Organizations to extend the coverage of wireless network and bridging

Secure and reliable wireless networking

Gemtek Systems' P-720 supports and meets all security requirement of wide area networking professionals for secured wireless network:

- ▲ Supports VLAN, up to 16 VLAN ID per Radio
- ▲ IEEE 802.1x/EAP with password, certificates and SIM card (EAP/TLS, EAP/PEAP, EAP/SIM and EAP/TTLS)
- ▲ 64bits/128bits static and dynamic WEP key
- ▲ Support Wi-Fi Protected Access (WPA/WPA2) with AES and TKIP
- ▲ Layer 2 Isolation for preventing snooping on the same BSS
- ▲ MAC ACL for preventing illegal attacking from Internet
- ▲ Hidden SSID broadcast to prevent illegal users connection

Strong Anti-interference

Dynamic Channel Allocation (DCA) solution automatically selects optimal operational frequency channel during power up and periodically monitors the environment and adjusts for best operational channel.



Multiple BSSID

Support up to 16 BSSID per radio and each can be configured independently to support range of security policies, authentication methods, RADIUS servers and VLAN IDs. Each BSSID can be set different priority based on 802.1p tag or 802.11e EDCA which enables WLAN client device to access wireless link QoS capabilities.

Simple installation

Support IEEE 802.3af Power-over-Ethernet as well as external power supply by power adaptor. This reduces the cost and the effort of installation and maintenance dramatically.

Easy remote management and maintenance

Gemtek Systems' P-720 support remote managed with HTTPS, CLISH and SNMP.

- ▲ Web-based user interface with HTTPS request and CLISH configuration with SSHv2 request supplies secure remote management
- ▲ Gemtek Systems NMS product supplies the system management solution
- ▲ DHCP Server/DHCP Relay/DHCP Client service supplies flexibility for different network setup
- ▲ Remote software upgrading via HTTPS

Key Feature

- ▲ Two dual-band radios, supporting 802.11a/g/b simultaneously
- ▲ IEEE 802.11a/g Access Point
- ▲ IEEE 802.11a/g Bridge (PtP/APtMP and Repeater)
- ▲ Multiple BSSID
- ▲ Supports 802.1x/EAP with TLS, TTLS, PEAP, SIM
- ▲ 64bits/128bits static and dynamic WEP
- ▲ Supports WPA and WPA2
- ▲ MAC ACL
- ▲ Layer 2 Isolation
- ▲ Hidden SSID for blocking illegal users accessing
- ▲ Supports up to 16 VLAN ID
- ▲ Remote secure management by HTTPs and SSHv2
- ▲ DHCP serve/DHCP relay/DHCP Client
- ▲ Configuration file backup and restore
- ▲ Remote secure firmware upgrade via HTTPs
- ▲ Output power control
- ▲ DCA (Dynamic Channel Allocation)
- ▲ Wireless QoS
- ▲ Support NTP and setting time manually



Wireless Specification

- Standard: IEEE 802.11b, IEEE 802.11g and IEEE 802.11a
- Data Rates (Auto fall back) :
802.11a: 54,48,36,24,18,12,9,6Mbps
802.11g: 54,48,36,24,12,9,6,11,5,2,1Mbps
Turbo 802.11a: 108Mbps
- Transmit Power (adjustable RF power):
Max 17dBm ± 1.5dBm @6~24Mbps
Max 12dBm ± 1.5dBm @54 Mbps
(Maximum power will vary by channel, rate and regulatory domain)
- Receive Sensitivity : 802.11a/g:
- 6Mbps 10-5 BER @ -90dBm - 9Mbps 10-5 BER @ -89dBm
- 12Mbps 10-5 BER @ -88dBm - 18Mbps 10-5 BER @ -87dBm
- 24Mbps 10-5 BER @ -83dBm - 36Mbps 10-5 BER @ -80dBm
- 48Mbps 10-5 BER @ -74dBm - 54Mbps 10-5 BER @ -70dBm
- Encryption : WPA2, WPA(TKIP/AES),
Dynamic/static 64bits and 128bits WEP
- Antenna: 2 Dual-band Dipole Antennas with R-TNC plug connector

Related Product

Controller : G-8000/G-4200

Access Point : P-780 54Mb Dual-Band Outdoor Access Point



Application

Physical Environment

- Interface
Ethernet : 10/100Mb Ethernet, auto sensing, RJ-45
Console 1 × DB-9 Male (RS232) for serial configuration
- Physics Characteristics
Dimension : 195 x 160 x 27mm
Weight : 520g
- Environment Characteristics
Temperature : 0°C ~ +55°C
Humidity : 20% ~ 90% (non-condensing)
- Power Supply
Power over Ethernet : IEEE 802.3af compliance
Power Adaptor : Universal Input: 100-240V AC, 50-60 Hz
Output: 12V DC
- Management
Interfaces : HTTPS, Secure Telnet(SSHv2), SNMP
Software Upgrade : Remote Software upgrade via HTTPS
Restore default : H/W and S/W remote restore factory default
- LEDs
4 LEDs : Power, LAN, WLAN 1, WLAN 2
- Warranty
1 year

Package Contents

- P-720 Dual Radio 2.4GHz/5GHz Access Point
- CD with KickStart Utility, User Manual(*.pdf)
- Printed Release Note
- Printed Warranty Card
- Ethernet Cat.5 Cable (1.8m)
- Universal Power Supply
- Console Cable
- Antenna × 2
- Screw Bag

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