

P-520

54Mb Operator Access Point

Carrier - Grade Wi-Fi Access Point with integrated diversity antennas

V2.1

High performance for maximum coverage

The Gemtek Systems P-520 Operator Access Point provides high quality connectivity for Wi-Fi networks. Designed to support large Hotspots, The P-520 AP combines with high receiver sensitivity, high output power, and proven antenna technology to maximize its coverage.

The perfect AP for large areas

The P-520 AP is specifically designed for large venues. Connected to an Access Controller, or Hotspot-in-a-Box like the G-4200 or P-560 Plus, P-520 AP can easily cover large areas. Together they simplify network management and maintenance. With IEEE 802.3af compliance, the P-520 AP can be powered over standard Ethernet cable resulting in reducing installation and maintenance costs.

Security

The P-520 AP supports various state-of-the-art security mechanisms like, Access Control Lists, 802.1x/EAP authentication and Layer 2 User Isolation. The User Isolation feature can effectively prevent peer to peer communication to avoid illegal transmission and file stealing. Besides, the P-520 AP is designed for wall mount with integrated theft-protection.

Total Management

The P-520 AP simplifies the set up, operation, control and management of public access networks. The P-520 AP can be remotely managed via HTTP, SNMP, or Telnet. Auto-channel selection and integrated site survey utilities help administrators to optimize cell planning.



Highlights

- ▲ IEEE 802.11g/b Access Point, Wi-Fi compliant
- ▲ Integrated high-gain diversity antennas
- ▲ Adjustable Output Power
- ▲ Power-over-Ethernet support
- ▲ Theft protection system
- ▲ 802.1x/EAPoLAN with optional pass-through methods
- ▲ Layer-2 user isolation
- ▲ Seamless roaming (IAPP support)
- ▲ Remote management, remote updates

Feature Highlight

- ▲ IEEE 802.11g/b Access Point, Wi-Fi compliant
- ▲ 802.1x authenticator supports EAP-SIM, MD-5, TLS, TTLS, PEAP
- ▲ Access Control List (MAC)
- ▲ Multiple SSIDs with VLAN support (in preparation)
- ▲ IAPP roaming
- ▲ WDS - Wireless Distribution System to connect client stations and up to 7 Bridge APs concurrently
- ▲ Adjustable RF output power (0-20 dBm)
- ▲ Layer 2 User Isolation (disable peer-to-peer communication)
- ▲ Secure remote management via HTTPs, Telnet, SSH, SNMP (MIB II, 802.11 MIB, private MIB)
- ▲ Automatic channel selection
- ▲ Integrated site survey, station supervision, loopback test
- ▲ Auto reboot is supported



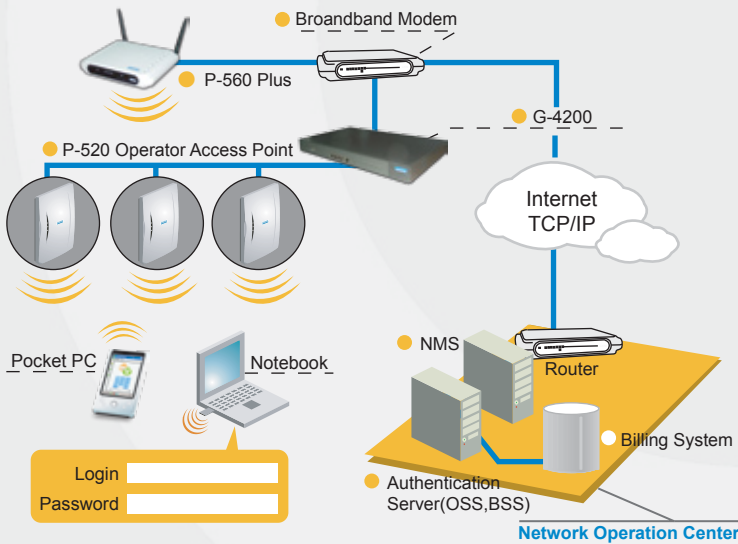
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Product Specification

Standard	IEEE 802.11b, 802.11g, mixed mode b+g (2.4GHz ISM band)			
Data Rates	802.11b/DSSS 11, 5.5, 2, 1Mbps (auto fallback) 802.11g/OFDM 54, 48, 36, 24, 18, 12, 9, 6 (auto fallback)			
Channels	Up to 13 channels selectable based on regulatory domain settings			
RF Transmit Power	0 - 20dBm (adjustable in steps)			
Receiver Sensitivity	Data Rate	Sensitivity	Delay Spread	Modulation
	54Mbps	-71dBm	>100ns	64QAM/OFDM, 8% PER
	48Mbps	-73dBm		64QAM/OFDM, 8% PER
	36Mbps	-75dBm		16QAM/OFDM, 8% PER
	24Mbps	-78dBm		16QAM/OFDM, 8% PER
	18Mbps	-80dBm		QPSK/OFDM, 8% PER
	12Mbps	-82dBm		QPSK/OFDM, 8% PER
	11Mbps	-87dBm	>90ns	CCK, 8% PER
	9Mbps	-84dBm		BPSK/OFDM, 8% PER
	6Mbps	-86dBm	>800ns	BPSK/OFDM, 8% PER
5.5Mbps	-89dBm	>200ns	CCK, 8% PER	
2Mbps	-90dBm	>360ns	DQPSK, 8% PER	
1Mbps	-92dBm	>360ns	DBPSK, 8% PER	
Antennas	Two integrated diversity antennas: 6dBi directional antenna vertical polarization & 4dBi horizontal polarized antenna			



Product Specification

Interface

Ethernet Interface	10/100 Base-T, auto-sensing, RJ-45
Serial Console Port	DB-9 connector (internal)

Dimension & Weight

Dimension: 196 x 142 x 35mm / 7.7 x 5.6 x 1.4in (L x W x D)
Weight: 350g
Housing: Rugged and flame-resistant plastic housing, wall-mount kit with theft protection

Environment

Operating temperature: 0°C to 45 °C
Operating humidity: 10% to 95%, non-condensing

Power Source

Power-over-Ethernet, IEEE 802.3af compliant, optional PoE hub available
Power Adapter: input: 100-230V AC, 50-60 Hz and
output: 5V/2A DC

LEDS

(3 LEDs) RF activity, LAN activity, Power

Compliance

CE, FCC

Warranty

Two years

Management

Interfaces	HTTP, Telnet, SNMP (MIB II, 802.11 MIB, private MIBs)
Software Update	Remote Software Update via HTTP
Reset	Reset to factory default by command and by internal reset button

Related Product

Access Controller	G-4200 SMB Public Access Controller
Access Point	P-720 Dual Radio 2.4G/5GHz Access Point P-780 Dual Radio 2.4G/5GHz Outdoor Access Point P-560 Plus Hotspot Access Point
PoE Device	E-820 Managed Power-over-Ethernet Switch

Application

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