

P-380

11Mb Outdoor Router

Wireless Router and Access Point with rugged housing for outdoor applications



The P-380 Outdoor Router is ideal for rough environments and outdoor applications. It can be configured as an inter-building wireless bridge or router as well as an access point for wireless clients.

Routing

Connecting two buildings via a wireless link is the job of a wireless router. A router can connect different networks (subnets) and minimizes the data transfer over the wireless link. The integrated packet filtering firewall of P-380 can effectively increase the security of the network.

Bridging

When protocols other than TCP/IP need to be transmitted, the P-380 can be configured as a layer 2 bridge. With no license required for wireless bridges in the 2.4 GHz band, in almost every part of the world, the P-380 can be a cost effective alternative to leased-lines for line-of-sight connections. One P-380 can connect up to eight different networks in a point-to-multipoint configuration.

Access Point

The P-380 can also be a Wi-Fi access point for environmentally challenged locations like industrial plants, or when an outdoor installation can better serve the application. The weatherproof housing has a NEMA classification of IP66, and incorporates a temperature control system to support operation from -20° to +65°C. As an AP one P-380 can connect up to 250 clients.

Client Router

In client mode the P-380 can connect complete Ethernet networks or one single Ethernet terminal to a Wi-Fi network. This configuration is most effective in mixed environments where mobile clients and fixed bridge links are used in parallel.

Install and forget

A bright LED display of signal strength enables simple installation optimization. As a Power-over-Ethernet client, the P-380 is supplied data and power over one cable, allowing remote power resets, thereby eliminating the need for any on-site-maintenance.

Long Range

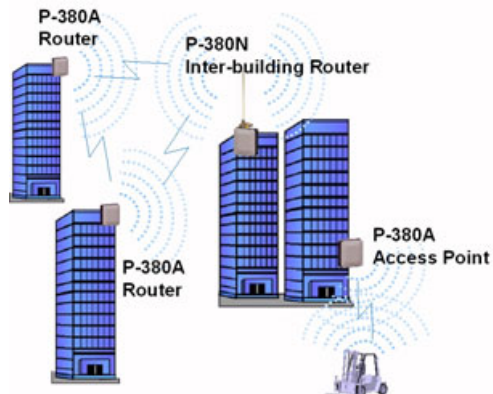
The P-380 can be ordered with an integrated high-gain antenna (P-380A), or with a connector (reverse N) for an external antenna (P-380N). The radiated output power is adjustable up to 19dBm (plus antenna gain). With the integrated 10dBi directional antenna (45° beam width) two P-380A routers can connect at a distance of up to five kilometers.

Remote Management

The P-380 supports various different network management interfaces, such as SNMP, Telnet, SSH and HTTPs. It has an integrated site survey feature, provides performance measurement data and remote firmware updates.

P-380 Highlights

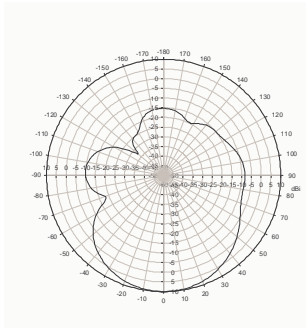
- IEEE 802.11b Access Point, Wi-Fi compliant
- Wireless IP Router, Bridge, Client Router/Bridge
- Weather proof and rugged housing
- Operating temperature range from -20°C to +65°C
- Adjustable RF Output Power
- Integrated or external antennas
- Power-over-Ethernet support
- Wall or mast mount



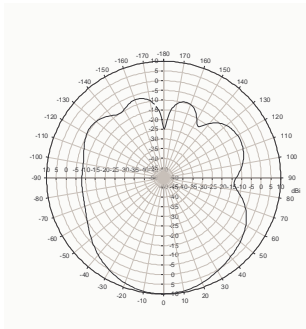
Gemtek Systems, a global Wi-Fi Public Access systems and solutions provider, is a subsidiary of Gemtek Technologies, the world's largest independent supplier of Wi-Fi products.

Antenna patterns P-380A:

Horizontal



Vertical



P-380 Specification

FEATURES			
• IEEE 802.11b Access Point, Wi-Fi compliant	• IP Router, Wireless Bridge, Client Router, Client Bridge		
• Layer 2 User Isolation (disable peer-to-peer communication)	• 40/128-bit WEP encryption		
• Packet filtering firewall	• Access Control List (MAC address filter)		
• DHCP server, DHCP client	• Adjustable RF output power up to 19dBm (up to 29dBm EIRP with P-380A)		
• Integrated Site Survey, Station supervision, Loopback test	• Remote management via HTTPs, Telnet, SSH, SNMP (MIB II, private MIB)		
•	• Remote software updates		
INTERFACE			
Ethernet Interface	10/100 Base-T, RJ-45, Power-over-Ethernet		
Serial Console Port	DB-9 connector (internal)		
WIRELESS			
Standard	IEEE 802.11b DSSS (2.4GHz ISM band)		
Data Rate	11Mbps, 5.5Mbps, 2, Mbps, 1Mbps (auto fallback)		
Channels	Up to 13 channels selectable based on regulatory domain settings		
RF Transmit Power	0 - 20dBm (adjustable in steps 0/10/13/16/20 dBm)		
Sensitivity	Data Rate	Sensitivity	Modulation
	11Mbps	-84dBm	CCK
	5.5Mbps	-87dBm	CCK
	1Mbps	-90dBm	DBPSK
Antenna connector (P-380N only!)	Reverse N-type connector (FCC compliant)		
Integrated Antenna (P-380A only!)	integrated 10dBi directional antenna, 45° beam width vertical and horizontal, vertical polarization		
PHYSICAL SPECIFICATION			
Dimension	180 x 160 x 58mm (7.1 x 6.3 x 2.3in)		
Weight	1100g (includes mounting kit)		
Housing	Ruggedized and flame-resistant plastic housing, wall or mast mount		
Environmental Conditions	Operating temperature: -20°C to +65°C Operating humidity: 10% to 100%		
Power Supply	Power-over-Ethernet IEEE 802.3af compliant, optional PoE hub available		
LEDS			
3+10 LEDS	RF activity, LAN activity, Power. +10 LEDS for link quality		
MANAGEMENT			
Interfaces	HTTPs, Telnet, SSH, SNMP (MIB II, private MIB)		
Software Update	Remote Software Update via HTTPs		
Performance Monitor	Tx / Rx		
Reset	Remote reset / Manufacturing reset		
WARRANTY			
2 years			
PACKAGE CONTENTS			
P-380 11Mb Operator Access Point	CD-ROM with software and documentation		
Mounting Kit	Printed User Manual		
RELATED PRODUCTS			
Access Controllers:	G-6000/4000 Public Access Controllers	P-360 11Mb Hotspot-in-a-Box	
Client Adapters:	T-300 series (2.4 GHz, 11Mb),		
PoE Switches:	E-810 8-port Power-over-Ethernet Switch	E-110 Single-port PoE Feeder	

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