

P-380A

Outdoor AP and Router

P-380A (Wireless Router and Access Point with rugged housing for outdoor applications)

This module will be phased out, and the NWH660 replacement



Introduction

The P-380 Outdoor Access Point & 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. One P-380 can connect up to eight different networks in a point-to-multipoint configuration.

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.

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 -20o to +65oC.

Install and forget

A bright LED display of signal strength enables simple installation optimization. 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

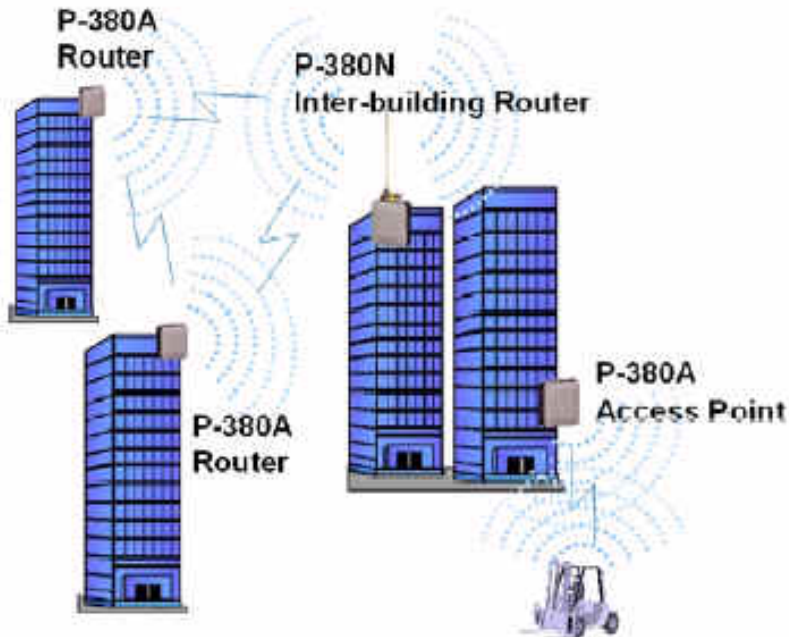
The P-380 can be ordered with an integrated high-gain antenna (P-380A), or with a connector (reverse N) for an external antenna (P-380N). With the integrated 10dBi directional antenna (40o beam width) two P-380A routers can connect at a distance of up to five kilometers.

Remote Management

The P-380 supports many different network management interfaces, such as SNMP, Telenet or HTTPS. It has an integrated site survey feature, provides performance measurement data and firmware upgrades can be done remotely.

P-380A Features

IEEE 802.11b and Wi-Fi compliant WLAN Access Point Mode, Bridge Mode or Station Mode (configurable) Weather proof and rugged housing Operating temperature range from -20°C to +65°C Integrated or external antennas WEP 64/128-bit support, Layer 2 isolation Remote management Remote software upgrades Power-over-Ethernet support Wall or mast mount.



Specifications

- **Features :**

- IEEE 802.11b Access Point, Router, Bridge
- Wi-Fi compliant
- 40/128-bit WEP security
- Layer 2 isolation for security
- 802.1x/EAPoLAN/with MD-5/TLS/TTLS/SIM support(in preparation)
- IAPP roaming (in preparation)
- RADIUS AAA client with EAP support (in preparation)
- Remote management via HTTPs, Telnet, SNMP (MIB II, Ethernet MIB, Bridge MIB, private MIB)
- IP routing with NAT, port forwarding and firewall filters
- Remote software upgrade via HTTP
- Integrated Site Survey, Loop-back test
- DHCP server, DHCP client
- Access Control List (MAC address filter)
- Programmable output power

- **Interface :**

- 10/100 Base-T, RJ-45 Power-over-Ethernet port for connection to Power-Switch

- **Wireless :**

- Standard : IEEE 802.11b DSSS (2.4GHz ISM radio band)
- Data Rate : 11Mbps, 5.5Mbps, 1Mbps (Auto scaling)
- Transmit Power : 29 dBm (typical)
- Sensitivity

Data Rate Sensitivity	Sensitivity	Modulation
11Mbps	-82dBm	CCK
5.5Mbps	-84dBm	CCK
1Mbps	-90dBm	DBPSK

Integrated Antenna : 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)

- **Environment Specification :**

Temperature : -20°C to 65°C

Humidity : up to 95%

- **Power Supply :**

Type : external AC/DC converter 100/230V to 5V DC/1.5A, 3W max.

Power-over-Ethernet : IEEE 802.3af compliant

- **Mechanical Specification :**

Ruggedized and flame-resistant plastic housing, wall or mast mount

- **LEDS :**

3 + 10 LEDES : RF activity, LAN activity, Power, 10 LED link quality display

- **Management :**

Interfaces : HTTPs, Telnet, SSH, SNMP (MIB II, Ethernet MIB, Bridge MIB, private MIB), Terminal

Software Update : Remote Software Update via HTTPs

Test : Integrated site survey, Loop-back test

Reset : Remote reset / Manufacturing reset

- **Warranty :**

2 year (limited)

- **Package Content :**

P-380A Outdoor Access Point & Router

Power supply and cables (single-port PoE Host)

CD-ROM with software and documentation

Mounting kit