



# Outdoor Dual Band WiFi N Access Point



## Perfect for

- Creating outdoor WiFi networks for private or public use
- Extending your WiFi network to an area previously unreachable
- Using as a part of a billable public WiFi solution

## KEY FEATURES

- ⌚ Selectable dual band WiFi (2.4GHz / 5GHz)
- ⌚ 802.11n WiFi supporting speeds up to 300Mbps<sup>1</sup>
- ⌚ Works as a wireless access point, wireless repeater or as a point-to-point WDS bridge
- ⌚ Pole mountable IP68 weatherproof housing with -25° to +70°C operating temperature
- ⌚ Gigabit Ethernet port that supports Power over Ethernet
- ⌚ Enterprise grade security options
- ⌚ QoS for traffic prioritisation





## SPECIFICATIONS

### WIRELESS

- Wireless interface: IEEE a/b/g/n selectable dual band radio operating in 2.4GHz or 5GHz frequencies

### WIRELESS ARCHITECTURE

- AP, WDS, Repeater and CPE modes
- Modulation
  - OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  - DSSS (CCK, DBPSK, DQPSK)

### DATA RATE WITH AUTO FALLBACK

- 802.11a: 6-54 Mbps, 802.11b: 1-11 Mbps, 802.11g: 6-54 Mbps, 802.11n: 6.5-300Mbps

### TRANSMIT POWER: (WITH ONE STREAM)

- 802.11a: 27dBm@54Mbps ±2dB
- 802.11b: 27dBm@11Mbps ±2dB
- 802.11g: 27dBm@54Mbps ±2dB
- 802.11n 5G HT20 & HT40: 23dBm@MCS7 ±2dB
- 802.11n 2.4G HT20 & HT40: 27dBm@MCS7 ±2dB

### RECEIVER SENSITIVITY

- 802.11a: -89dBm@54Mbps ±2dB
- 802.11b: -93dBm@11Mbps ±2dB
- 802.11g: -91dBm@54Mbps ±2dB
- 802.11n 5G HT20: -83dBm@MCS0 - -65dBm@MCS7
- 802.11n 5G HT40: -80dBm@MCS0 - -62dBm@MCS7
- 802.11n 2.4G HT20: -85dBm@MCS0 - -67dBm@MCS7
- 802.11n 2.4G HT40: -82dBm@MCS0 - -62dBm@MCS7

### ANTENNAS

- 2 transmitting, 2 receiving external N-type antennas
- Gain: 5dBi

### MULTIPLE OPERATING MODES

- AP mode & WDS mode (WDS bridge): support up to 8 WDS links
- Repeater mode: Acting as AP and STA client simultaneously
- CPE mode (Client gateway)

### GATEWAY FEATURES IN CPE MODE

- IP sharing on the LAN side for multiple users (subscribers) to get access to the Internet by built-in NAT mode
- Built-in DHCP server for issuing local IP address
- Built-in DDNS/DNS client
- Uplink and downlink bandwidth management (QoS, WMM)
- IP/Port forwarding and DMZ

### ACCESS POINT FEATURES

- Number of ESSIDs (Virtual APs): 16
- Number of associated clients: 256
- Setting for maximum number of associated clients
- Adjustable beacon interval
- Auto fallback data rate
- Support IAPP
- RTS/CTS and fragmentation control
- ACK timeout support
- Adjustable transmission power: 5 steps, 2dbm per step
- Wireless site survey: scanning the surrounding Wi-Fi signals
- Support IEEE 802.11e WMM and QoS

### SECURITY

- Data encryption: WEP (64/128/152 bits), WPA/WPA2 with TKIP or AES-CCMP with key's refreshing period setting
- User authentication: WEP, IEEE 802.1x, WPA-Personal, WPA Enterprise, MAC ACL, MAC authentication using RADIUS with built-in 802.1X Authenticator
- IEEE 802.11 mixed mode: open & shared key authentication
- Hidden ESSID: Enable/Disable broadcasting SSID
- Station Isolation: All associated stations cannot communicate with each other when function enabled
- Supports AES data encryption over WDS link
- Built-in Layer 2 firewall, blocking Dynamic ARP inspection & DHCP Snooping

### ADMINISTRATION

- Web-based management interface with remote configuration management and firmware upgrade capabilities
- Utilities for system configuration backup and restoration
- SNMP MIB II support (v1/v2c/v3) & NTP time synchronization
- Watch dog: auto recovery while detecting system fault
- Syslog client
- Support Event Log and Syslog reporting to external server
- Supports Radius accounting and accounting update
- Supports statistic on total transmission encountered and transmitting error occurred

### HARDWARE SPECIFICATION

- Uplink Port: 1 x 10/100/1000 Base-T Ethernet with IEEE802.3af PoE (as PD)
- 2 x N-type (female) connector for external antenna
- Protective vent window
- Form factor: wall or Pole mountable
- Metal case: IP68 rating

### PHYSICAL AND POWER

- Total power consumption: 12W maximum
- Support IEEE 802.3af PD
- Form factor: wall or pole mount
- Dimension (W x D x H): 182 x 111 x 45mm (not include antenna)
- Weight: 900g (only the NP731)

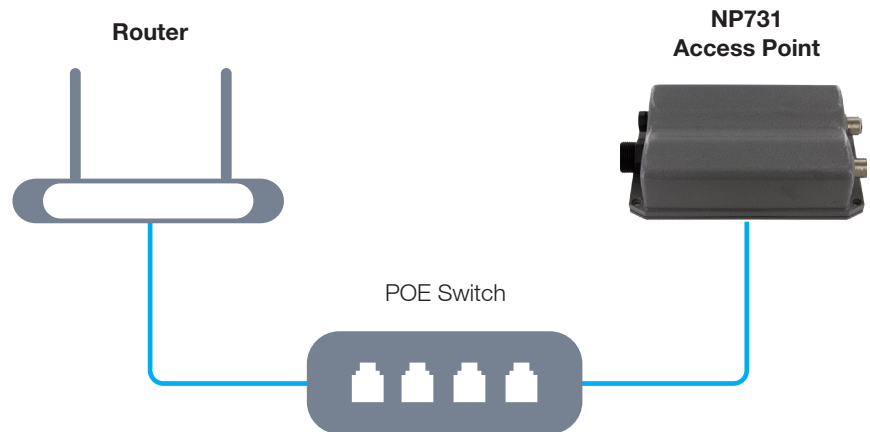
### ENVIRONMENTAL SPECIFICATION

- Humidity 90 % (non-condensing)
- Operating Temperature: -30 to +70° C
- Storage Temperature: -40 to +80° C

### CERTIFICATIONS

- FCC, CE, RCM
- RoHS compliant

# Outdoor Dual Band WiFi N Access Point



The NetComm Wireless NP731 is an outdoor device that will operate in access point, repeater and WDS bridge mode. Its rugged IP68-rated metal housing is weatherproof, pressure balancing, water-tight and rust-resistant, making it an ideal solution for deployments in harsh conditions, such as outdoor or industrial environments. Designed to meet the needs of today's most demanding wireless LAN deployments, the NP731 offers a solution to create a reliable and scalable wireless network. With its multi mode set up, the device can be used in many instances to increase and enhance wireless coverage.

With selectable dual band 802.11n WiFi, the NP731 can provide WiFi speeds of up to 300Mbps<sup>1</sup>. Its wall penetrating, high powered signal and long wireless range are suitable for a number of applications. Whether you are needing to increase wireless connectivity within an office, warehouse, shop or to extend the range on a wireless hotspot or if you are looking to increase outdoor coverage, each external access point offers simple installation and a simple way to increase your coverage.

<sup>1</sup> Maximum wireless signal rate and coverage values are derived from IEEE Standard 802.11ac and 802.11n specifications. Actual wireless speed and coverage are dependent on network and environmental conditions included but not limited to volume of network traffic, building materials and construction/layout.

### PACKAGE CONTENTS

- NP731 Access point
- 2 x 5dB: Outdoor omni antennas
- PoE injector
- 10m RJ45 Outdoor rated ethernet cable
- Ground wire
- Detachment tool (for RJ45 connector)
- Mounting kit
- Printed Quick Start Guide
- Warranty sheet

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