



# Wireless 300N Access Point

**300 Mbps, MIMO, Bridge, Repeater, Multiple SSIDs, VLANs**

**Wireless networking with three times the speed and five times the flexibility.**

**Model**  
524728

The INTELLINET NETWORK SOLUTIONS™ Wireless 300N Access Point is the latest in wireless networking. Taking advantage of new technology, a wireless network can now see greatly enhanced network speeds.

## **Multiple Solutions in One Device**

The INTELLINET NETWORK SOLUTIONS Wireless 300N Access Point serves multiple purposes — an access point for your wireless network supporting multiple SSIDs and tagged VLANs, a wireless bridge for point-to-point connections or WDS setups, and a RADIUS authentication server — and brings it all together so that the devices can access a high-speed Internet connection.

## **Flexibility**

This access point can be configured in any one of five modes: 1) Access Point (AP), 2) Point-to-Point (PtP), 3) Point-to-Multi-Point (PtMP), 4) Universal Repeater or 5) AP Client (Station Infrastructure). Add support for multiple ESSIDs and VLANs to that and it becomes clear that whatever your requirements are the 300N Access Point provides the solution.

## **Secure Communications**

The Wireless 300N Access Point provides maximum wireless security by supporting 802.1x user authentication for external RADIUS servers and, thanks to its internal RADIUS server, the access point can be used as the authentication server in smaller networks. Other security features included in this access point are MAC address filtering, disable SSID broadcast and support for the latest wireless encryption mechanisms.

## **Lifetime Warranty**

Strict manufacturing standards ensure the highest quality in all INTELLINET NETWORK SOLUTIONS products. All items carry a full Lifetime Warranty — the strongest quality commitment anyone can make.





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## Features

- Up to 300 Mbps network link speed
- Complies with 2.4 GHz Draft IEEE 802.11n standard and is backward compatible with IEEE 802.11g/b standards
- 2T2R MIMO technology for enhanced throughput and coverage
- Supports WMM function to meet the multimedia data bandwidth requirement
- Supports Wi-Fi Protected Setup (WPS)
- Supports WEP and WPA/WPA2 (TKIP and AES) data encryption
- Integrated RADIUS authentication server for 16 wireless clients
- DHCP server assigns IP addresses for all LAN users
- Supported modes: Access Point, Bridge Point-to-Point, Bridge Point-to-Multi-Point, WDS and Universal Repeater
- Supports multiple ESSIDs with individual security settings
- Multiple ESSIDs support VLAN tagging
- Easy installation through Web-based user interface
- Firmware upgradeable
- Use INTELLINET NETWORK SOLUTIONS Wireless N adapters for the best compatibility and performance
- Lifetime Warranty

## Specifications

### STANDARDS

- IEEE 802.1d (Spanning Tree Protocol)
- IEEE 802.11b (11 Mbps Wireless LAN)
- IEEE 802.11g (54 Mbps Wireless LAN)
- IEEE 802.11n Draft 2.0 (300 Mbps Wireless LAN)
- IEEE 802.1x (Network Access Control)
- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3u (100Base-TX Fast Ethernet)

### GENERAL

- LAN port: RJ45 10/100 Mbps data port
- LAN port with Auto MDI/MDI-X
- Flash: 4 MB
- Memory: 16 MB SDRAM
- Certifications: FCC Class B, CE Mark, RoHS

### WIRELESS

- Chipset: Ralink RT3052
- Wireless frequency range: 2.400 – 2.483 GHz
- Modulation technologies:
  - 802.11b: Direct Sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK
  - 802.11g: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
  - 802.11n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM

- Data rates:
  - IEEE 802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
  - IEEE 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
  - IEEE 802.11n (MCS0-15: up to 300 Mbps)
- Output power:
  - OFDM: 14 dBm +/- 1.5 dBm (300 Mbps, 40 mW max.)
  - OFDM: 15 dBm +/- 1.5 dBm (54 Mbps, 40 mW max.)
  - CCK: 17 dBm +/- 1 dBm (11 Mbps, 63 mW max.)
- Receiver sensitivity:
  - 11n (300 Mbps) MCS0-15: 20 MHz: -73 dBm; 40MHz: -68 dBm
  - 11g (54 Mbps) OFDM: -78 dBm
  - 11b (11 Mbps) CCK: -91 dBm
- Wireless operation modes:
  - Access Point
  - Station Infrastructure (AP Client)
  - Point-to-Point Bridge
  - Point-to-Multi-Point Bridge
  - WDS Bridge
  - Universal Repeater
- Wireless security:
  - WEP encryption (64/128 bit)
  - WPA TKIP
  - WPA2 AES
  - WPA2 mixed
  - WPA RADIUS
  - 802.1x Authentication
  - Internal MD5/PEAP RADIUS server

- Client access control through media access control (MAC) filter
- Antennas:
  - 2 detachable dipole antennas with 3 dBi gain each
  - 2T2R MIMO mode (2 transmitters, 2 receivers)

### LEDs

- Power
- WLAN Link/Act
- LAN Link/Act

### ENVIRONMENTAL

- Dimensions: 160 (W) x 127 (L) x 35 (H) mm (6.3 x 5.0 x 1.4 in.)
- Weight: 0.8 kg (1.7 lbs.)
- Operating temperature: 0 – 40°C (32 – 104°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: -20 – 60°C (4 – 149°F)

### POWER

- External power adapter: 5 V DC, 1.0 A
- Power consumption: 4 Watts max.

### PACKAGE CONTENTS

- Wireless 300N Access Point
- User manual on CD, quick install guide
- 2 detachable antennas
- Power adapter
- Ethernet Cat5 RJ45 cable: 1.0 m (3 ft.)

For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit **[www.intellinet-network.com](http://www.intellinet-network.com)**.



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