

2.4GHz 300Mbps 802.11n Outdoor Wireless AP



Rugged and Durable Outdoor Wi-Fi Solution

PLANET WAP-252N 802.11n Outdoor Wireless AP comes with the IP67-rated aluminum case, enormously protected from dust and water immersion. It adopts the mature technology of IEEE 802.11n 2T2R standard with maximum connectivity and 300Mbps performance in 2.4GHz frequency band. By connecting high-gain antenna through the flexible N-type connectors, it is easy to achieve various outdoor long-distance applications and capable to adapt to any rough environment.



PoF Function

For the maximum adaptability and stability in the rugged environment, the WAP-252N not only comes with IP67-rated aluminum die-cast housing, but also adopts the enterprise-level Qualcomm kernel, capable of withstanding wide temperature ranging from -40 to 70 degrees C. With the IEEE 802.3af/at PoE, the WAP-252N can be easily installed in the areas where power outlets are not available. Furthermore, it is also suitable to be integrated with PLANET Solar Power PoE System to offer wireless services even in the suburbs

Industrial Wireless LAN and LAN

- · Compliant with the IEEE 802.11b/g/n wireless technology
- · 2T2R architecture with data rate of up to 300Mbps
- Equipped with 10/100Mbps RJ45 port, auto MDI/MDI-X supported

Fixed-network Broadband Router

- · Supported WAN connection types: DHCP, Static IP, PPPoE
- Supports Port Forwarding and DMZ for various networking applications
- · Supports DHCP server in Gateway/WISP mode

RF Interface Characteristics

- Two built-in N-type connectors
- High output power with multiply-adjustable transmit power control

Outdoor Environmental Characteristics

- · IP67-rated sturdy aluminum case
- IEEE 802.3af/at Power over Ethernet design
- Operating temperature: -40~70 degrees C

Multiple Operation Modes and Wireless Features

- Multiple operation modes: AP, Gateway, Repeater, WDS, WISP
- WMM (Wi-Fi multimedia) provides higher priority to multimedia transmitting over wireless
- Coverage threshold to limit the weak signal of clients occupying session
- Real-time Wi-Fi channel analysis chart and client limit control for better performance

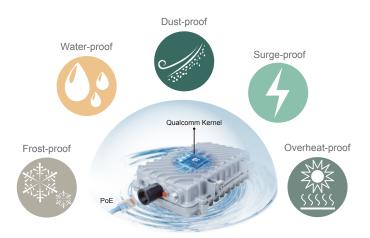
Secure Network Connection

- Full encryption supported: 64-/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK and 802.1X RADIUS authentication
- Supports 802.1Q VLAN and SSID-to-VLAN mapping
- Supports IP/Port/MAC address/URL filtering, DoS, SPI
 Firewall
- Supports DMZ and Port Forwarding
- · Bandwidth control per IP address to increase network stability

Easy Deployment and Management

- · Supports PLANET AP Controllers in AP mode
- · Easy discovery by PLANET Smart Discovery
- · Self-healing mechanism through system auto reboot setting
- System status monitoring through remote Syslog Server
- Supports PLANET DDNS/ Easy DDNS





Environmental Adaptations in Outdoor Area

Designed for Heavy Data Transmission Traffic

With larger memory capacity and faster CPU clock speed, the WAP-252N is capable of withstanding high frequency of user access and heavy data transmission traffic in the densely-populated area. To have a suitable coverage threshold, the product can flexibly control the client access, efficiently limit unreachable clients and retain bandwidth for authorized users. To provide maximum performance, the WAP-252N can implement up to 8 operation modes where a multitude of applications can be had for communities, warehouses, campuses, harbors, etc.





Multiple SSIDs with VLAN Tagging

As for security, the WAP-252N supports WPA/WPA2, and the 802.1X RADIUS authentication to secure the wireless connection. Besides, the supported IEEE 802.1Q VLAN allows multiple VLAN tags to be mapped to multiple SSIDs to distinguish the wireless access. This makes it possible for the WAP-252N to work with managed Ethernet switches to have VLANs assigned to a different access level and authority.





Multi-SSIDs + VLANs

Optimized Efficiency in AP Management

The brand-new GUI configuration wizard helps the system administrator easily set up the WAP-252N step by step. Besides, the built-in Wi-Fi analyzer provides real-time channel utilization to prevent channel overlapping to assure greater performance. With the automatic transmission power mechanism, distance control and scheduling reboot setting, the WAP-252N is easier for the administrator to deploy and manage without on-site maintenance. Moreover, you can simply install PLANET AP controller software, SAPC (Smart AP Control), to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.

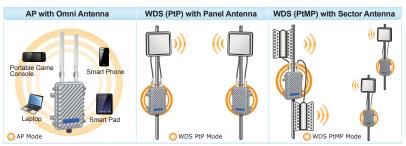


Applications

Flexible Hardware and Software Characteristics for Various Applications

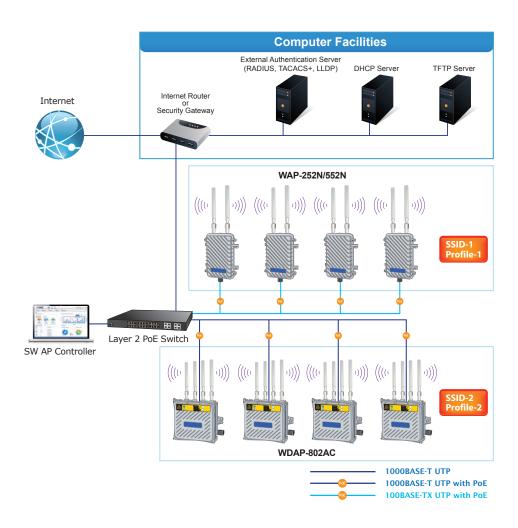
With a specific antenna connected through the built-in N-type connectors and eight operation modes, the WAP-252N greatly benefits the system integrator as a multitude of applications can be had for communities, warehouses, campuses, harbors, etc. Designed to be adapted to any rigorous environment, the WAP-252N comes with a IP67-rated aluminum case and standard PoE power scheme, thus eliminating the difficulty in the outdoor wireless LAN deployment.

Flexible Deployment with Various Antennas



Furthermore, compatible with the latest PLANET Smart AP Control, the WAP-252N can assist administrators in managing the network centrally with ease.





^{**}Matching the WAP-252N with the related PLANET products to get the best results is recommended.



Specifications

| | WAR 252N | | | |
|-----------------------------|--|--|---------------------------|--|
| Product | = | WAP-252N 300Mbps 802.11n Outdoor Wireless AP | | |
| Hardware | | | | |
| Standard Support | IEEE 802.11b/g/n IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control | IEEE 802.311i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x flow control | | |
| Material | Aluminum | Aluminum | | |
| Dimensions (W x D x H) | 153.2 x 79.5 x 234.5 mm | | | |
| Weight | 2kg | | | |
| Power Requirements | | 48V DC IN,0.5A, IEEE 802.3af/at PoE+ | | |
| Power Consumption (max.) | | <13W | | |
| Mounting Type | | Mast mounting | | |
| Interface | | Wireless IEEE 802.11b/g/n, 2T2R PoE LAN: 1 x 10/100BASE-TX, auto-MDI/MDIX, 802.3af/at PoE In | | |
| Button | Reset button | Reset button | | |
| Antenna | Two built-in N-type connector | Two built-in N-type connectors (female) | | |
| Data Rate | IEEE 802.11g: up to 54Mbps IEEE 802.11n (20MHz): up to | IEEE 802.11b: 1, 2, 5.5, 11Mbps IEEE 802.11g: up to 54Mbps IEEE 802.11n (20MHz): up to 150Mbps IEEE 802.11n (40MHz): up to 300Mbps | | |
| Media Access Control | CSMA/CA | CSMA/CA | | |
| Modulation | | 802.11g/n: OFDM (BPSK/ QPSK/ 16QAM/ 64QAM) 802.11b: DSSS (DBPSK/ DQPSK/ CCK) | | |
| Frequency Band | FCC: 2.412~2.462GHz ETSI: 2.412~2.472GHz | | | |
| Operating Channels | FCC: 1~11 Channels ETSI: 1~13 Channels | | | |
| Max. Transmit Power (dBm) | FCC: up to 29 ± 1dBm ETSI: < 20dBm (EIRP) | | | |
| | Network Mode | Data Rate | Receive Sensitivity (dBm) | |
| Receiver Sensitivity (dBm) | 802.11b | 1Mbps | -95 | |
| | | 11Mbps | -90 | |
| | 802.11g | 6Mbps | -90 | |
| | | 54Mbps | -72 | |
| | 802.11n HT20 | MCS0/MCS8 | -90 | |
| | | MCS7/MCS15 | -72/-68 | |
| | 802.11n HT40 | MCS0/MCS8 MCS7/MCS15 | -90 | |
| Environment & Certification | | MCS7/MCS15 | -72/-68 | |
| Operating Temperature | -40 ~ 70 degrees C | | | |
| Operating Humidity | 10 ~ 90% (non-condensing) | | | |
| IP Level | IP67 | | | |
| ESD Protection | ± 8kV air-gap discharge ± 4kV contact discharge | ± 8kV air-gap discharge | | |
| Surge Protection | ± 4kV | | | |
| Regulatory | CE, RoHS | | | |
| Software | | | | |
| LANI | Static IP | Static IP | | |
| LAN | Supports IP-MAC binding | | | |
| WAN Type (GW/WISP mode) | Static IPDynamic IPPPPoE | - Static IP - Dynamic IP | | |
| Wireless Modes | Access PointGatewayRepeaterWDS (AP/Bridge/Station)WISP | GatewayRepeaterWDS (AP/Bridge/Station) | | |
| Channel Width | 20MHz, 40MHz | 20MHz, 40MHz | | |
| Encryption Type | 64-/128-bit WEP, WPA, WPA | 64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X | | |
| | | | | |



| Wireless Security | Enable/Disable SSID Broadcast | | |
|-----------------------|--|--|--|
| | Wireless Max. 32 MAC address filtering | | |
| | User Isolation | | |
| Max. SSIDs | 4 | | |
| Max. Wireless Clients | 64 per radio (50 is suggested, depending on usage) | | |
| Max. WDS Peers | 4 | | |
| Wireless QoS | Supports Wi-Fi Multimedia (WMM) | | |
| Wireless Advanced | Auto Channel Selection | | |
| | 5-level Transmit Power Control (100%, 75%, 50%, 25%, 12.5%) | | |
| | Client Limit Control, Coverage Threshold | | |
| | Distance control (Auto Ack Timeout) | | |
| | Wi-Fi channel analysis chart | | |
| | Fast Roaming | | |
| Status Monitoring | Device status, wireless client List | | |
| | PLANET Smart Discovery | | |
| | DHCP client table | | |
| | System Log supports remote syslog server | | |
| VLAN | IEEE 802.1Q VLAN (VID: 3~4094) | | |
| | SSID-to-VLAN mapping up to 4 SSIDs | | |
| Self-healing | Supports auto reboot settings per day/hour | | |
| Management | Remote management through PLANET DDNS/ Easy DDNS | | |
| | Configuration backup and restore | | |
| | Supports UPnP | | |
| | Supports IGMP Proxy | | |
| | Supports PPTP/L2TP/IPSec VPN Pass-through | | |
| | SNMP v1/v2c/v3 support, MIB I/II, Private MIB | | |
| Central Management | Applicable controllers: WAPC-500, WAPC-1000 and Smart AP Control(SAPC) | | |

Ordering Information

WAP-252N 2.4GHz 300Mbps 802.11n Outdoor Wireless AP

Related Products

| WDAP-702AC | 1200Mbps Dual Band 802.11ac Outdoor Wireless AP |
|------------|--|
| WDAP-8350 | 600Mbps Dual Band 802.11n Outdoor Wireless CPE (IP66, 802.3at PoE, 4 x N-type connector) |
| WBS-200N | 2.4GHz 300Mbps 802.11n Outdoor Wireless CPE |
| WNAP-6335 | 2.4GHz 300Mbps 802.11n Outdoor Wireless AP/Router (2 x RP-SMA Connector) |
| BSP-360 | Industrial Renewable Energy 4-Port 10/100/1000T 802.3at PoE+ Managed Ethernet Switch |
| ELA-100 | Ethernet Lightning Arrest Box |

Accessories

| CB-STP-25 | 25-meter STP Cat5 Cable |
|-----------|---|
| WL-NM-0.6 | 0.6 meter N-male (male pin) to N-male (male pin) Cable |
| ANT-OM8 | 2.4GHz 8dBi Omni-directional Antenna |
| ANT-OM15 | 2.4GHz 15dBi Omni-directional Antenna |
| ANT-FP9 | 2.4GHz 9dBi Flat Panel Directional Antenna |
| ANT-FP14D | 2.4GHz 14dBi Flat Panel Dual Polarization Directional Antenna |
| ANT-FP18 | 2.4GHz 18dBi Flat Panel Directional Antenna |
| ANT-SE18 | 2.4GHz 12-18dBi Adjustable Sector Antenna |
| ANT-GR21 | 2.4GHz 21dBi Grid Directional Antenna |
| WL-LTNA | 2.4/5GHz Lightning Arrester (N-male to N-female) |

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Tel: 886-2-2219-9518 Email: sales@planet.com.tw Fax: 886-2-2219-9528 www.planet.com.tw



WAP-252N