2.4GHz 300Mbps 802.11n Wireless Outdoor CPE

Key Features

WNAP-6325

- **Industrial Compliant Wireless LAN and LAN**
  - Compliant with IEEE 802.11n wireless technology capable of up to 300Mbps data rate
  - Backward compatible with 802.11g standard
  - Equipped with 10/100Mbps RJ-45 ports for LAN and WAN with auto MDI/ MDI-X supported

- **Fixed-network Broadband Router**
  - Supported connection types in WISP mode: Dynamic IP/ Static IP/ PPPoE
  - Supports virtual server and DMZ for various networking applications
  - Supports DHCP server, UPnP and Planet DDNS

- **RF Interface Characteristics**
  - Built-in 14dBi dual-polarization antenna
  - High output power up to 500mW with multiply-adjustable transmit power control

- **Outdoor Environmental Characteristics**
  - IP55 enclosure
  - Passive Power over Ethernet design
  - Operating temperature: -20~70°C

- **Multiple Operations and Wireless Modes**
  - Multiple operation modes: Bridge and WISP
  - Multiple wireless modes: AP, Client CPE (WISP), WDS PtP, WDS PtMP and Repeater
  - Supports multiple-SSIDs to allow users to access different networks through a single AP
  - Supports WMM (Wi-Fi Multimedia)

- **Secure Network Connection**
  - Advanced security: 64/128-bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK (TKIP/AES) and 802.1x RADIUS authentication
  - Supports MAC address filtering

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**Cost-effective Wireless Solution with Superior Performance**

The WNAP-6325 is designed to provide a highly-stable, better performance and cost-effective wireless solution in outdoor wireless deployment. With the same transmission power, it offers better significant range and excellent throughput than those of the traditional 802.11g wireless device. Via the embedded 14dBi dual-polarization (vertical and horizontal) directional antenna, it provides good diversity coverage and better noise immunity effect, thus heightening the performance of a long-distance, outdoor connectivity even though the environment is flooded with many 2.4GHz wireless equipment.

**Designed for Various Requirements**

The WNAP-6325 is dedicatedly designed for WISP solution that provides CPE users with Internet access via the WISP provider in rural areas. Besides, it caters to various wireless communication connectivities (AP / Client / WDS PtP / WDS PtMP / Repeater), thus meeting users’ application requirements.

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Advanced Security and Rigorous Authentication

The WNAP-6325 supports WEP, WPA / WPA2, WPA-PSK and WPA2-PSK wireless encryptions, the advanced WPA2-AES mechanism and 802.1X RADIUS authentication, which can effectively prevent eavesdropping by unauthorized users or bandwidth occupied by unauthenticated wireless access. Furthermore, any users are granted or denied access to the Wireless LAN network based on the ACL (Access Control List) that the administrator pre-established. In addition, with the multiple-SSIDs feature, you can set up different wireless networks. The WNAP-6325 can therefore serve as a virtual access point for segmented networks tailored to any industrial need.

Flexible and Reliable Outdoor Characteristics

The WNAP-6325 is definitely suitable for such applications as IP surveillance, backhaul link of building to building and backbone of public service. Additionally, the self-healing/schedule reboot capability keeps connection alive all the time. Meeting the IP55 rating for outdoor UV resistant enclosure, the WNAP-6325 can perform normally under rigorous weather conditions, meaning it can be installed in any harsh, outdoor environments. With the proprietary Power over Ethernet (PoE) design, the WNAP-6325 can be easily installed in the areas where power outlets are not available.

Easy Deployment and Management

With user-friendly Web UI and step-by-step setup wizard, the WNAP-6325 is easy to install, even for users who never experience in setting up a wireless network. Furthermore, with the Planet Smart Discovery Utility and SNMP-based management interface, the WNAP-6325 is convenient to be managed and configured remotely.

Applications

Flexible Outdoor Wireless Solution

The WNAP-6325 is a cost-effective outdoor wireless solution for widely open space applications. It is definitely suitable for outdoor wireless connections between buildings and IP surveillance facilities. Furthermore, the WNAP-6325 equipped with grounding terminal can be directly grounded and perfectly prevent damage from lightning surges when functioning with PLANET ELA-100, the Ethernet Lightning Arrest Box, which assures the connection stability.
With built-in 14dBi dual-polarization directional antenna, the WNAP-6325 brings higher performance and longer distance of wireless connection. The WNAP-6325 provides high output power with multiply-adjustable Tx controller, which allows CPE users to easily install and adjust the suitable value in appropriate locations. When connecting with the WNAP-6325, the system integrator is able to provide a reliable IP surveillance solution to eliminating the limited wireless coverage of the IP camera.

**We recommend you to match the WNAP-6325 with our related products to get the best results.**
## Specifications

### Model
- **WNAP-6325**

### Hardware

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Support</td>
<td>IEEE 802.11b/g/n</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3u</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3x</td>
</tr>
<tr>
<td>Memory</td>
<td>64 Mbytes DDR SDRAM</td>
</tr>
<tr>
<td></td>
<td>16 Mbytes Flash</td>
</tr>
<tr>
<td>PoE</td>
<td>Passive PoE</td>
</tr>
<tr>
<td>Interface</td>
<td>Wireless IEEE802.11b/g/n, 2T2R</td>
</tr>
<tr>
<td></td>
<td>PoE LAN (LAN 1): 1 x 10/100Base-TX, auto-MDI/MDIX,</td>
</tr>
<tr>
<td></td>
<td>passive PoE pass-through</td>
</tr>
<tr>
<td></td>
<td>LAN 2: 1 x 10/100Base-TX, auto-MDI/MDIX, passive</td>
</tr>
<tr>
<td></td>
<td>PoE pass-through</td>
</tr>
<tr>
<td>Antenna</td>
<td>Built-in 14dB dual-polarization antenna</td>
</tr>
<tr>
<td></td>
<td>- Horizontal: 30 degrees</td>
</tr>
<tr>
<td></td>
<td>- Vertical: 20 degrees</td>
</tr>
</tbody>
</table>

### Wireless RF Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Technology</td>
<td>IEEE 802.11b/g</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n</td>
</tr>
<tr>
<td>Data Rate</td>
<td>IEEE 802.11b: 1, 2, 5.5, 11Mbps</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11g: up to 54Mbps</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n (20MHz): up to 150Mbps</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n (40MHz): up to 300Mbps</td>
</tr>
<tr>
<td>Media Access Control</td>
<td>CSMA/CA</td>
</tr>
<tr>
<td>Modulation</td>
<td>Transmission/Emission type: OFDM</td>
</tr>
<tr>
<td></td>
<td>Data modulation type: OFDM with BPSK, QPSK, 16-QAM,</td>
</tr>
<tr>
<td></td>
<td>64-QAM</td>
</tr>
<tr>
<td>Frequency Band</td>
<td>2.412GHz ~ 2.484GHz</td>
</tr>
<tr>
<td>Operating Channel</td>
<td>America/ FCC: 2.414~2.462GHz (11 Channels)</td>
</tr>
<tr>
<td></td>
<td>Europe/ ETSI: 2.412~2.472GHz (13 Channels)</td>
</tr>
<tr>
<td></td>
<td>Japan/ TELEC: 2.412~2.484GHz (14 Channels)</td>
</tr>
<tr>
<td>RF Output Power (Max.)</td>
<td>IEEE 802.11b: up to 25 ± 1dBm</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11g: up to 22 ± 1dBm</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n: up to 21 ± 1dBm</td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>IEEE 802.11b: -94dBm</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11g: -91dBm</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n: -89dBm</td>
</tr>
<tr>
<td>Output Power Control</td>
<td>12~27dBm</td>
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<tr>
<td>Power Consumption</td>
<td>12W</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>LAN</td>
</tr>
<tr>
<td></td>
<td>24V DC, 1A/ Passive PoE</td>
</tr>
<tr>
<td></td>
<td>Pin 4.5 V DC+</td>
</tr>
<tr>
<td></td>
<td>Pin 7.8 V DC-</td>
</tr>
<tr>
<td></td>
<td>Pin 3 Reset</td>
</tr>
</tbody>
</table>

### Software

#### LAN
- Built-in DHCP server supporting static IP address distribution
- Supports 802.1d STP (Spanning Tree)

#### WAN
- Static IP
- Dynamic IP
- PPPoE

#### Operating Mode
- Bridge
- WISP

#### Firewall
- NAT firewall with SPI (Stateful Packet Inspection)
- Built-in NAT server supporting virtual server and DMZ
- Built-in firewall with port/ IP address/ MAC/ URL filtering

#### Wireless Mode
- AP
- Client
- WDS PTP
- WDS PTMP
- WDS Repeater (AP+WDS)

#### Channel Width
- 20MHz / 40MHz

#### Wireless Isolation
- Enable to isolate each connected wireless client to let them cannot access mutually

#### Encryption Type
- 64/128-bits WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1x
WNAP-6325

Wireless Security
- Wireless LAN ACL (Access Control List) filtering
- Wireless MAC address filtering
- Enable/Disable SSID Broadcast

Multiple SSIDs
- * Up to 8

Max. Wireless Clients
- 25

Max. WDS APs
- 8

Max. Wired Clients
- 60

WMM
- Supports Wi-Fi multimedia

QoS
- Supports Quality of Service for bandwidth control

NTP
- Network Time Management

Self Healing
- Supports Schedule Reboot

Management
- Web UI, DHCP Client, Configuration Backup and Restore, Dynamic DNS, and SNMP

Diagnostic Tool
- System Log, Ping Watchdog

Environment and Certification
- Operating Temperature: -20~70°C
- Operating Humidity: 10~95% non-condensing
- IP Level: IP55
- Regulatory: CE, FCC, RoHS

Accessory
- Standard Accessories:
  - WNAP-6325 x 1
  - PoE Injector x 1
  - Power Cord x 1
  - Plastic Strap x 1
  - Quick Installation Guide x 1

Remarks
- * means future firmware support

Ordering Information

WNAP-6325
- 2.4GHz 300Mbps 802.11n Wireless Outdoor CPE

Related Products

CB-STP-25
- 25-meter STP Cat5 Cable

ELA-100
- Ethernet Lightning Arrest Box

WNL-U555HA
- High Power 802.11n Wireless Compact USB Adapter

ICA-HM316W
- 2 Mega-pixel 11n Outdoor IR IP Camera

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