

# 5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point



#### High Power Outdoor Wireless Coverage

PLANET Technology introduces the latest high power outdoor wireless LAN solution - the 300Mbps Outdoor Wireless AP, WNAP-7320. It provides higher transmit power, better performance, more widely coverage and stable connection than standard outdoor wireless AP. The WNAP-7320 is compliant with IEEE 802.11n standard and 2T2R MIMO technology which makes it possible to deliver data rate up to 300Mbps, six times faster than normal 802.11a wireless device. Via the embedded 14dBi dual-polarization (vertical and horizontal) directional antenna, it provides good diversity coverage and better noise immunity. Not only features high sensitivity but also the high output power up to 500mW, the WNAP-7320 can extend higher coverage in outdoor long range applications.



#### Multiple Operating & Wireless Modes

The WNAP-7320 supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater) allowing for various application requirements and thus gives users more comprehensive using experience. It helps users to easily build a wireless network and extend the wireless range of existing wireless network. The WNAP-7320 also supports WISP mode, so CPE users could easily connect to Internet via WISP provider or connect to a wired network.

#### Wireless LAN & LAN

- Compliant with IEEE 802.11n wireless technology capable of up to 300Mbps data rate
- · Backward compatible with 802.11a standard
- Equipped with 10/100Mbps RJ-45 Ports for LAN & WAN,
   Auto MDI / MDI-X supported

#### Fixed-network Broadband Router

- Supported connection types: Dynamic IP / Static IP / PPPoE / PPTP / L2TP / IPSec
- Supports Virtual Server, DMZ for various networking applications

#### **RF Interface Characteristics**

- Built-in 14dBi Dual-Polarization Antenna
- High Output Power up to 500mW with multiple adjustable transmit power control

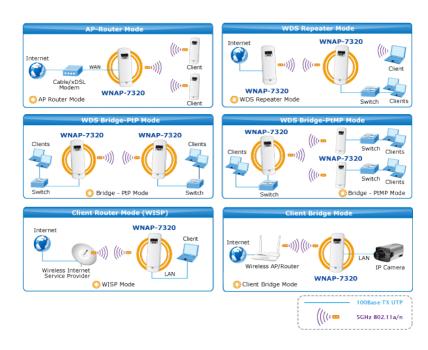
#### **Outdoor Environmental Characteristics**

- Outdoor UV Stabilized Enclosure, IP55 Protection Grade
- Passive Power over Ethernet design
- Operating Temperature: -30~75 Degree C

#### Multiple Operation & Wireless Mode

- Multiple Operation Modes: Bridge, Gateway, WISP
- Multiple Wireless Modes: AP, Client CPE (WISP), WDS
   PtP, WDS PtMP, Repeater
- Supports Dual-SSID allowing users to access different networks through one single AP
- · Supports WMM (Wi-Fi Multimedia)





#### Advanced Security and Management

In aspect of security, besides 64/128-bit WEP encryption, the WNAP-7320 integrates WPA / WPA2, WPA-PSK and WPA2-PSK to secure and protect your wireless LAN. The wireless MAC filtering and SSID broadcast control consolidate the wireless network security and prevent unauthorized wireless connection. In addition, with the Dual-SSID feature you can setup two different wireless networks, the WNAP-7320 can therefore serve as a virtual access point for segmented networks tailored to any office or industrial need.

#### Highly Reliable Outdoor Device

The WNAP-7320 is perfectly suitable to be installed in outdoor environments and exposed locations. Rated to operate at the temperature from -30 to 75 Degree C and adopted IP55 and outdoor UV Stabilized Enclosure; the WNAP-7320 can perform normally under rigorous weather conditions including heavy rain and wind. With the proprietary Power over Ethernet (PoE) design, the WNAP-7320 can be easily installed in the areas where power outlets are not available. It is the best way using the WNAP-7320 to build outdoor wireless access applications between buildings on campuses, business, rural areas, etc.

#### Easy Installation & Management

With User-friendly Web UI and step by step Setup Wizard, the WNAP-7320 is easier to install, even for users who never experience setting up a wireless network. Furthermore, with SNMP-Based management interface, the WNAP-7320 is convenient to be managed and configured remotely.

#### Secure Network Connection

- Supports Software Wi-Fi Protected Setup (WPS)
- Advanced security: 64/128-bit WEP, WPA / WPA2,
   WPA-PSK / WPA2-PSK (TKIP/AES), and 802.1x
   Authentication
- Supports NAT firewall features, with SPI function to protect against DoS attacks
- Supports IP / Protocol-Based access control and MAC
   Filtering

#### Easy Installation & Management

- Web-Based UI and Quick Setup Wizard for easy configuration
- Remote Management allows configuration from a remote site
- · SNMP-Based management interface
- System status monitoring includes DHCP Client,
   System Log







# **Application**

#### Longer distance coverage between LAN connections

The WNAP-7320 is a cost-effective outdoor wireless solution for widely open space applications. It is best suitable for outdoor wireless connections between buildings.



With built-in 14dBi dual-polarization directional antenna, the WNAP-7320 brings higher coverage and longer distance of wireless connection. The WNAP-7320 provides high output power with multiple adjust Tx controller, which allows CPE users to easily install and adjust the suitable value in appropriate locations. Moreover, the WNAP-7320 supports WISP mode to enable CPE users to connect to Internet via local WISP provider.



<sup>\*\*</sup>Sincerely suggest match the same model in outdoor wireless bridge application for getting the best performance.



# Specifications

Product   SOR-2006bps 802.11am Wireless Outdoor Access Fount		M/NIAD 7220			
Standard Support	Product				
Standard Support	Hardwara Specification	SGHZ SUUIVIDPS 602. I	Ta/IT WITE LESS OUTGOOT ACT	cess Point	
IEEE 802.11   Wireless Security   IEEE 802.3 to 1008as-T Ethernet   IEEE 802.3 to 1008as-T X Ethernet   IE	Hardware Specification	IEEE 802 11a/n Wirold	oce I AN		
Methods   Elec 802.11a   More   Mor	Standard Support	IEEE 802.11i Wireless Security IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet			
Interface	Memory	·			
Antenna	Interface	LAN: 1 x 10/100Base-TX, Auto-MDI/MDIX			
IEEE 802.11a   IEEE	Antenna	- Horizontal: 45 degree			
IEEE 802.11n   IEEE 802.11n   IEEE 802.11n   IEEE 802.11n   S4, 48, 36, 24, 18, 12, 9 and 6Mbps   IEEE 802.11n (20MHz): up to 150Mbps   IEEE 802.11n (20MHz): up to 300Mbps   IEEE 802.11n (20MHz): up to 300Mbps   IEEE 802.11n (20MHz): up to 300Mbps   IEEE 802.11n (40MHz): up to 500Mbps   IEEE 802.11n (40MHz): up to 500Mbps   IEEE 802.11n (40MHz): up to 500Mbps   IEEE 802.11n (40MHz): up to 100Mbps   IEEE 802.11n (40MHz)   IEEE	Wireless RF Specifications				
Data Rate     IEEE 802.11n (20MHz): up to 150Mbps	Wireless Technology				
Transmission / Emission Type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM	Data Rate	IEEE 802.11n (20MHz): up to 150Mbps			
Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM	Media Access Control				
S.180GHz	Modulation	• •			
S.200GHz	Frequency Band	5.180GHz ~ 5.825GHz	Z		
5.220GHz		5.180GHz	CH36	5.580GHz	CH116
S.240GHz		5.200GHz	CH40	5.600GHz	CH120
S.260GHz		5.220GHz	CH44	5.620GHz	CH124
5.280GHz	Operating Channel	5.240GHz	CH48	5.640GHz	CH128
S.300GHz		5.260GHz	CH52	5.660GHz	CH132
5.320GHz		5.280GHz	CH56	5.680GHz	CH136
5.320GHz		5.300GHz	CH60	5.700GHz	CH140
5.520GHz		5.320GHz	CH64	5.745GHz	CH149
5.540GHz CH108 5.805GHz CH161 5.560GHz CH112 5.825GHz CH165  *The above 24 channels are theoretically defined. The actual application will vary depends on the regulation in different regions and countries.  RF Output Power IEEE 802.11a: 27 ± 1dBm  Receiver Sensitivity IEEE 802.11a: -92 ~ -73dBm @ 6Mbps ~ 54Mbps IEEE 802.11a: -94 ~ -73dBm @ MCS0 ~ MCS15  Output Power Control 3~27dBm  Software Features  LAN Built-in DHCP server supporting static IP address distributing  Supports 802.1d STP (Spanning Tree)  Static IP  Dynamic IP  PPPoE  PPTP  L2TP  IPSec  Bridge		5.500GHz	CH100	5.765GHz	CH153
5.560GHz CH112 5.825GHz CH165  *The above 24 channels are theoretically defined. The actual application will vary depends on the regulation in different regions and countries.  RF Output Power    IEEE 802.11a: 27 ± 1dBm    IEEE 802.11n: 24 ± 1dBm    IEEE 802.11n: 24 ± 1dBm    IEEE 802.11a: -92 ~ -73dBm @ 6Mbps ~ 54Mbps    IEEE 802.11n: -94 ~ -73dBm @ MCS0 ~ MCS15  Output Power Control 3~27dBm  Software Features    Built-in DHCP server supporting static IP address distributing		5.520GHz	CH104	5.785GHz	CH157
5.560GHz CH112 5.825GHz CH165  *The above 24 channels are theoretically defined. The actual application will vary depends on the regulation in different regions and countries.  RF Output Power    IEEE 802.11a: 27 ± 1dBm    IEEE 802.11n: 24 ± 1dBm    IEEE 802.11n: 24 ± 1dBm    IEEE 802.11a: -92 ~ -73dBm @ 6Mbps ~ 54Mbps    IEEE 802.11n: -94 ~ -73dBm @ MCS0 ~ MCS15  Output Power Control  3~27dBm  Software Features    Built-in DHCP server supporting static IP address distributing		5.540GHz	CH108	5.805GHz	CH161
*The above 24 channels are theoretically defined. The actual application will vary depends on the regulation in different regions and countries.  RF Output Power    IEEE 802.11a: 27 ± 1dBm    IEEE 802.11n: 24 ± 1dBm    IEEE 802.11a: -92 ~ -73dBm @ 6Mbps ~ 54Mbps    IEEE 802.11a: -92 ~ -73dBm @ MCS0 ~ MCS15					
RECeiver Sensitivity  IEEE 802.11n: 24 ± 1dBm  IEEE 802.11a: -92 ~ -73dBm @ 6Mbps ~ 54Mbps IEEE 802.11n: -94 ~ -73dBm @ MCS0 ~ MCS15  Output Power Control 3~27dBm  Software Features  LAN  Built-in DHCP server supporting static IP address distributing  Supports 802.1d STP (Spanning Tree)  Static IP  Dynamic IP  Dynamic IP  PPPOE  PPTP  L2TP  IPSec  Bridge		*The above 24 channels are theoretically defined. The actual application will vary depends on the regulation in different regions and countries.			
IEEE 802.11n: -94 ~ -73dBm @ MCS0 ~ MCS15	RF Output Power	IEEE 802.11n: 24 ± 10			
Software Features  LAN  Built-in DHCP server supporting static IP address distributing  Supports 802.1d STP (Spanning Tree)  Static IP  Dynamic IP  PPPoE  PPTP  L2TP  IPSec  Bridge	Receiver Sensitivity				
Built-in DHCP server supporting static IP address distributing  Supports 802.1d STP (Spanning Tree)  Static IP Dynamic IP PPPoE PPTP L2TP IPSec Bridge	Output Power Control	3~27dBm			
LAN         Supports 802.1d STP (Spanning Tree)           WAN         • Static IP           • Dynamic IP         • PPPoE           • PPTP         • L2TP           • IPSec         • Bridge	Software Features				
LAN         Supports 802.1d STP (Spanning Tree)           WAN         • Static IP           • Dynamic IP         • PPPoE           • PPTP         • L2TP           • IPSec         • Bridge		Built-in DHCP server supporting static IP address distributing			
WAN	LAN	Supports 802.1d STP (Spanning Tree)			
■ Bridge	WAN	<ul> <li>Dynamic IP</li> <li>PPPoE</li> <li>PPTP</li> <li>L2TP</li> </ul>			
Operating Mode	Operating Mode	<ul><li>Bridge</li><li>Gateway</li></ul>			



	NAT firewall with CDI (Stateful Deaket Inspection)			
Firewall	NAT firewall with SPI (Stateful Packet Inspection)			
	Built-in NAT server supporting Virtual Server and DMZ			
Wireless Mode	Built-in firewall with Port / IP address / MAC / URL filtering  AP Client WDS PTP			
wireless Mode	<ul> <li>WDS PTP</li> <li>WDS PTMP</li> <li>WDS Repeater (AP+WDS)</li> </ul>			
Channel Width	20MHz / 40MHz			
Wireless Security	Enables isolation of each connected wireless client from communicating with each other mutually.			
Encryption Type	64/128-bits WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1X			
Wireless Security	Provides wireless LAN ACL (Access Control List) filtering			
	Wireless MAC address filtering			
	Supports WPS (Wi-Fi Protected Setup )			
	Enable / Disable SSID Broadcast			
Multiple SSID	Up to 2			
Max. Wireless Client	40			
Max. WDS AP	8			
Max. Wired Client	60			
WMM	Supports Wi-Fi Multimedia			
QoS	Supports Quality of Service for bandwidth control			
NTP	Network Time Management			
Management	Web UI, DHCP Client, Configuration Backup & Restore, Dynamic DNS, SNMP			
Diagnostic Tool	System Log, Ping Watchdog			
Mechanical & Power				
IP Rate	IP55			
Material	Outdoor UV Stabilized Enclosure			
Dimension (W x D x H)	275 x 93 x 45 mm			
Weight	336 ± 5g			
Installation	Pole mounting or Wall mounting			
	24V DC, 0.5A/ Passive PoE			
Power Requirements	LAN Pin 4,5 VDC+ Pin 7,8 VDC-			
Power Consumption	7.68W			
Environment & Certification				
Operation Temperature	-30~75 Degree C			
Operating Humidity	10~95% non-condensing			
Regulatory	CE / RoHS			
Accessory				
	■ 24V DC Passive PoE injector & Power cord x 1			
Standard Accessories	■ Mounting Tie x 2			
	<ul> <li>Quick Installation Guide x 1</li> </ul>			
	■ CD (User's Manual, Quick Installation Guide) x 1			

## **Ordering Information**

WNAP-7320 5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point

### Accessories

CB-STP-25	25 Meter STP Cat5 Cable
ELA-100	Ethernet Lightning Arrest Box

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

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C-WNAP-7320