

# Winpower AU102A-46

## 802.11a Outdoor Subscriber



Using advanced OFDM and power amp technology, the AU102A-46 has high output power and amazing throughput even at long distance transmission. It operates at 5GHz band (5.15, 5.25, 5.47 and 5.725) GHz with 80+ non-overlapping channels.

Highly-powered with a total of 46dBm (EIRP) and the panel antenna-integrated design, this outdoor subscriber is ideal for enterprise / campus connectivity, distant Point to point bridge or CPE of point to multi-point bridge.

The AU102A-46 has powerful security management because it supports WEP 64 / 128 / 152 bits, 802.1x Authentication (EAP), MAC address filter, disable broadcast the SSID, client isolation and WPA-PSK / WPA encryption. All these functions make the network much more reliable.

### APPLICATIONS

- Long distances P-T-P / P-T-MP (CPE) Bridge
- Dedicated ISP connections for high-reliability subscribers
- Redundant links between buildings
- Enterprises or Institutions LAN and PBX extension
- Cost effective alternative to wired network environment

### Product Highlights

#### ➤ LARGE AREA COVERAGE

High output power up to 46dBm (EIRP) and low noise figure extend the signal transmit distance and enlarge the coverage area as well.

#### ➤ IMPRESSIVE DATA RATE AT LONG DISTANCE

Unique technology breaks the distance limit of 802.11a standards. We succeeded in extending the signal up to 2~8 miles (3~13 Km) with the impressive 54Mbps (Max) data rate.

#### ➤ MANAGEABILITY

Through the Web-based configuration, the WP102A is fully manageable locally and remotely. In addition, built-in SNMP support let ISP and enterprise users expand the network infrastructure much easier.

#### ➤ COST EFFECTIVE CONNECTION

Integrated antenna design provides best performance and lowest price at the same time support WP102A to be the most cost effective solution in the WLAN outdoor Bridge market.

#### ➤ RELIABILITY

The WP102A is the most reliable outdoor radio which provides a trustworthy passageway in the air with stable and robust design.

#### ➤ SECURITY

WEP 64 / 128 / 152 bit encryption, WPA-PSK, 802.1x Authentication(EAP), disable broadcast the SSID, client isolation and MAC Access control build the highest security mechanism to prevent the malicious attacking from the internet.



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### Specifications

RADIO					
Standards	IEEE 802.11a				
Frequency	5GHz Band				
Operating Channels	5.150GHz~5.850GHz ; Customized to meet regulatory requirements				
Data Rte	Modulation	Tx Output pwr	Rx sensitivity	Net Throughput	Range
54Mbps@OFDM	64QAM	20(±1.5) dBm	-71 dBm	Up to 23.4 Mbps	Up to 11 Km
36Mbps@OFDM	16QAM	22(±1.5) dBm	-79 dBm	Up to 18.6 Mbps	Up to 15 Km
18Mbps@OFDM	QPSK	22(±1.5) dBm	-84 dBm	Up to 10.2 Mbps	Up to 22 Km
6Mbps@OFDM	BPSK	23(±1.5) dBm	-87 dBm	Up to 4.70 Mbps	Up to 30 Km
Note	*Range: Path distance, with 23 dBi Integrated Antenna at both ends for 99.7% availability at ideal conditions *RX sensitivity: Packet Error Rate: 10%				
INTERFACES					
Ethernet	IEEE 802.3(10 Base-T) / IEEE 802.3u(100 Base-TX)				
MANAGEABILITY					
Management and setup	Web-based configuration				
Operating mode	AP / Station / WDS(Bridge) / Repeater / Inter-building private LAN				
SNMP agents	MIB II				
Protocol	TCP/IP, IPX/SPX, NetBEUI				
Operating System	Windows 98 / 2000 / NT / XP				
Network Architecture	Point to point / Point to multi-point / Hotspot / Repeater				
IP Routing	Enable anyIP				
QOS	Wi-Fi Multi-media / uplink speed limit				
DHCP supports	DHCP client				
Other features	VLAN / HTTP Redirect / virtual Servers				
SECURITY					
Data Encryption	WEP 64 / 128 / 152 bits encryption WPA-PSK WPA-TKIP WPA2-AES 128bits				
Authentication	802.1x Auth.(EAP)				
Authorization	MAC Access Control				
Advanced Security	Disable broadcast SSID Firewall Wireless Client Security Separation (Layer 2 Isolation)				
ANTENNA					
Frequency	5.150GHz~5.875GHz				
Gain	23dBi				
Beamwidth	H 10° ; E 10°				
VSWR	≤1.7 :1				
Front to back ratio	40 dB				
Impedance	50 ohms				
ENVIRONMENT					
Operating Temperature	-30℃~55℃				
Storage Temperature	-30℃~70℃				
Humidity	95% non-condensing				
POWER SUPPLY					
AC 100-264 V, DC 24V, 50-60Hz					
PHYSICAL					
Dimension	335 (L) × 335 (W) × 81 (H) ; mm				
Weight	2.9 Kg				
WARRANTY					
1 Year					
ORDERING INFORMATION					