ZyXEL



High Speed, Long Range Ethernet Wireless Bridge for PTP or PT2P for Backhaul Connection

ZyXEL A-6000 is an instantly deployable outdoor broadband solution for interbuilding network connectivity to eliminate the need for expensive leased lines or be a backup for other media. With Point-to-2-Points configuration, users can either extend the communication range or overcome the non-line-of-sight problems. Designed-in authentication and encryption secures the transmission of sensitive information.

Benefits

Flexibility

Operating in the less noisy and license-free 5 GHz frequency band, the ZyXEL A-6000 provides an excellent broadband experience for long-range outdoor wireless Ethernet connection. Acting in a simple PTP topology, it relieves the need to lay wires and labor required to bridge LAN segments between buildings. Configured as a PT2P topology, it extends the effective communication range, as well as offering a means to overcome problems experienced in a non-line-of-sight environment.

High Speed & Security

With Up to 108 Mbps data rate and TKIP/AES security support, the A-6000 is very suitable for business-class applications which require high performance and security. It is also conceived as a cost-effective alternative to leased lines for reducing recurring charges, and offering fast return-on-investment to its users especially WISP, ILEC and CLEC.

Ease-of-Deployment

The PoE design eliminates the need for an additional power cord while installed. The AK-100, with RSSI and SNR indicators, provides a great help to the installer when targeting the antenna, especially for long-distance alignment. The A-6000 provides an instant and independent infrastructure which is immediately deployable with lower infrastructure costs than any other solution on the market.

Manageability

Smart data rate and auto channel selection allow the A-6000 to adapt to varied environments, maximizing the throughput and minimizing the operational adjustments needed. The Dynamic Frequency Selection/Transmit Power Control (DFS/TPC) design meets the regulatory requirements without extra manual effort. A web-based management system provides system status, system configuration and system log functions helping the operator to manage the system in an easy way. RSSI, SNR and LAN LEDs on the indoor unit make the problem diagnosis simple. Unit configuration and firmware upgrades through FTP are also provided.

Point-to-Point or Point-to-2-Points configuration Up to 108 Mbps Up to 20 km WPA-PSK, AES/TKIP Smart channel and best data rate selection support DFS/TPC support SNMP, HTTP, FTP support Antenna alignment assistance Indoor-unit status awareness



Outdoor Wireless Backhaul Bridge



Specifications

Radio		
Frequency range	4900-5850MHz	
RF modulation	OFDM with BPSK, QPSK, 16 QAM, 64 QAM	
RF access method	CSMA/CA	
Transmit power	0 ~ 20 dBm (typical)	
Over-the-air data rate	Mbps 6 9 12 18 24 36 48 54 108	
	Modulation BPSK BPSK QPSK QPSK 16QAM 16QAM 64QAM 64QAM 64QAM	
Antenna alignment	Special external alignment kit with link status and buzzer	
Networking Communication		
Standards compliance	IEEE 802.3, IEEE 802.1d, TCP/IP	
Management & Secuiry		
Management and setup	SNMP, Web/Telnet based management interface from wired LAN and wireless link	
Software upgrade	FTP download	
Security	WPA for mutual authentication, MAC filtering	
Over-the-air data encryption	Hardware based AES/TKIP	
Mechanical, Electrical & Operating Features		
	Outdoor Unit	Indoor Unit
Antenna connection	N male connector via 2m HDF 400 RF coaxial cable	
Ethernet Connection		Auto-sensing 10/100 BaseT (RJ-45)
Power connection	15V DC via Category 5 UTP cable with 8-pin special water-proof female connector	100-240 VAC to 15 VDC power adaptor, 50~60Hz
Alignment kit connection	8-pin special water-proof male connector	
LEDs		PWR, SYS, RSSI (L,M,H), SNR, LAN 10M/ 100M
Dimension	250(H) x 198(W) x 75(D) mm	181mm(W) x 128mm(L) x 36mm(H)
Weight	2050 gm	300g
Operating temperature	-30°C ~ +60°C	0°C~ +40°C
Relative humidity	0%~ 95% (non-condensing)	0%~ 90% (non-condensing)
Physical installation	With Mount bracket made by Stainless steel for	
	40~50mm diameter mast installation	
Category 5 UTP cable length	20m default, 50m/90m option	
Regulatory Approvals		
EMC	FCC Part 15 Subpart B, FCC Part Subpart E; EN301 489, EN301 893; VNS2107	
	UL1950, CSA C22.2 No 950, EN60950, IEC 950	
Safety approval	UL1950, CSA C22.2 No 950, EN60950, IEC 950	

For more product information, visit us on the web www.ZyXEL.com

Corporate Headquarters ZyXEL Communications Corp.

Tel: +886-3-578-3942 Fax: +886-3-578-2439 Email: sales@zyxel.com.tw http://www.zyxel.com http://www.zyxel.com.tw

ZyXEL Czech s.r.o.

Tel: +420 241091350 Fax: +420 241091359 Email:info@cz.zyxel.com http://cz.zyxel.com

ZyXEL North America Tel: +1-714-632-0882 Fax: +1-714-632-0858 Email: sales@zyxel.com http://www.us.zyxel.com

Tel: +47 22 80 61 80 Fax: +47 22 80 61 81 Email: sales@zyxel.no http://www.zyxel.no

ZyXEL Denmark A/S Tel: +45 39 55 07 00

Fax: +45 39 55 07 07 Email: sales@zyxel.dk http://www.zyxel.dk ZyXEL Norway A/S

ZyXEL Finland Oy

Tel: +358-9-4780 8400 Fax: +358-9-4780 8448 Email: sales@zyxel.fi http://www.zyxel.fi ZyXEL Spain Tel:+34 902 195 420 Fax:+34 913 005 345 Email: sales@zyxel.es http://www.zyxel.es

Tel: +46 31 744 7700 Fax: +46 31 744 7701 Email: sales@zyxel.se http://www.zyxel.se

Fax:+33 (0)472 52 97 97 Fax:+33 (0)472 52 19 20 Email: info@zyxel.fr http://www.zyxel.fr ZyXEL Sweden A/S

ZyXEL France SARL

Tel:+33 (0)4 72 52 97 97

ZyXEL Germany GmbH.

Tel: +49 2405 6909 0 Fax: +49 2405 6909 99 Email: sales@zyxel.de http://www.zyxel.de

ZyXEL UK Ltd.

Tel: +44 (0) 8702 909090 Fax: +44 (0)8702 909091 Email: sales@zyxel.co.uk http://www.zyxel.co.uk