

ZyXEL B-6000 Series

2.4GHz Outdoor Wireless Backhaul Bridge

Instant Broadband Deployment for Campus and Enterprise Inter-building Connectivity

- Outdoor 802.11b Wireless Backhaul Bridge (PTP) & Router (PT2P)
- IPSec VPN Tunnel Support
- MAC & 802.1x based mutual link authentication
- Long range distance with reliable throughput
- Base Unit (BU), & Remote Unit (RU) design for easy deployment
- Antenna alignment Kit for easy/ fast installation
- Wireless relay capability overcomes NLOS
- Power over Ethernet (PoE), & Detachable antenna support
- Web GUI, SMT, & SNMP support
- 2.4 GHz ISM operating band

Benefits

Outdoor Wireless Backhaul Designed for PTP & PT2P

ZyXEL B-6010(BU)/B-6020(RU) is an instantly deployable outdoor broadband solution for inter-building network connectivity to eliminate the need for expensive leased lines or be a backup for other media. 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.

Security and Reliability

With long distance reliable throughput and by supporting IPSec VPN (Virtual Private Network) with 3DES engine, the B-6000 series is particularly suited for financial banks, businesses and government agencies to deploy wireless networks for most sensitive data transmission. System privacy is inherent through the MAC & 802.1x based mutual authentication functionality by preventing unauthorized intrusion to the radio link. 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 B-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 B-6000 series 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.

Specifications

Standard compliance

- IEEE 802.3u support
- IEEE 802.11b support
- IEEE 802.11x support

System topology

- Point to point bridge (PTP)
- Point to two points (PT2P)

Security

- MAC access control
- 64/128-bits WEP
- 802.1x based authentication
- Filtering (Router mode): IP filter & Packet filter
- IPSec VPN tunnel with 3DES data encryption

Management

- Web-base configurator interface
- Telnet support
- SNMP MIB II, Bridge MIB support
- Local console management
- Access control with password protection
- Software upgrade via FTP/TFTP

Hardware Specification

- Antenna connection cable: HDF400 2m, N female/male connector with special water proof
Console connection cable: DB-9 female/8-pin female connector with special water proof, 2m
- RJ45 Ethernet cable: 8 pin male connectors with special waterproof, 20m
- Mast mount kit: Stainless steel for 40~50mm diameter mast

Environmental Specification

- Operating temperature: -30°C ~ +60°C
Relative humidity: 0~ 95% (non-condensing)
- Power adaptor: 100~240VAC, 50~60 Hz

Physical Specification

- 250(H) x 198(W) x 75(D) mm
- Weight: 2050gm

Certification

- FCC Part15, Class B
- CSA C22.2 No 950, EN 60950, IEC 950