ZyAIR B-4000

Hot Spot in a Box
Wireless Service Gateway

The ZyAIR B-4000 Wireless Service Gateway is a turnkey Wi-Fi hot spot solution. Designed with integrated billing and receipt printing capabilities, the ZyAIR B-4000 allows public businesses such as coffee shops, bookstores, libraries and airport terminals to cater to customers seeking Wi-Fi Internet access. By sharing a valuable broadband connection, businesses can attract new customers and charge for access as a way of defraying monthly Internet access costs.

The ZyAIR B-4000 combines an 802.11b wireless access point, router, 4-port switch, and wireless service gateway all in a single small-footprint box. No PC is needed - a one-button compact portable thermal printer connects directly to the gateway, allowing clerks and cashiers to easily print receipts with billing and password information. Even better - no back-end system integration is needed. Launching and operating a hot spot has never been easier!

Benefits

All-in-one turnkey wireless product

Unlike standard wireless transmitters, the ZyAIR B-4000 is a wireless access point with captive portal functionality, and a built-in router with 4 port switch - an unprecedented feature set offering turn-key hot spot service gateway functionality.

True Plug & Play Operation for a Hassle-Free Customer Experience

Before a user can access the Internet, they need to have a valid IP address on their computer. An IP address is like a ticket to travel onto the Internet. Unfortunately, accommodating the variety of IP settings used on today's business and personal computers can be one of the biggest obstacles to a seamless customer wireless experience. Not so with the ZyAIR B-4000. The device automatically configures the correct IP address, regardless of the customer's computer settings. The built-in intelligence recognizes new users on the network and accommodates all IP configurations, such as DHCP, Private IP or Static IP, without altering the settings. The process is seamless to the customer.

After a transaction, the clerk or store operator pushes the printer button to generate a user name and password. When the customer launches their browser, the built-in captive portal feature automatically directs the customer to the secure login page. After entering the user name and password, the customer is authenticated and can securely surf the Internet.

Built-in Authentication Server

The ZyAIR B-4000 has a built-in authentication server allowing administrators to manage subscriber access with login names and passwords

Easy to Use and Manage

The ZyAIR B-4000 features an easy to use Web-based management interface that is operating system-independent. Operators can set user access times in increments of minutes, days or even months. The unit comes with a handy compact printer, with one-touch operation to generate account information and billing receipts. Time increments can be easily added by pressing the printer button multiple times. No computers or complex back end subscriber management systems are required.

Comprehensive Security Features

The ZyAIR B-4000 features exclusive Layer 2 isolation capabilities, preventing users from seeing each other's traffic. Built-in SSL login provides robust authentication protection. Users can surf the Internet worry-free.

Additional revenue opportunities

The ZyAIR B-4000 offers homepage redirection, walled garden and multiple URL link redirection, allowing operators to push advertising content to the users as part of the wireless service.

F e a t u r e s   &   S p e c i f i c a t i o n s

Standards Compliance
IEE802.3 10BaseT Ethernet
IEE802.3u 100BaseTX Fast Ethernet
IEE802.11b Wireless LAN
ANSI/IEEE 802.3 NWay auto-negotiation
Wi-Fi Certified

Wireless Operation
Range: Open Space: 100~300m ; Indoors: 35~100m
Data rate: 11 / 5.5 / 2 / 1 Mbps with fallback
Encryption: 64/128/256-bit RC4

Powerful Networking Functions
NAT (RFC 1631)
DNS Redirection
Static IP WAN connection
DHCP Client WAN connection
PPPoE WAN connection
PPTP Client WAN connection
DHCP Server and DHCP Relay
Transparent HTTP Proxy Support

Easy to use for end users and network administrators
True plug and play - Zero End-User Configuration
Built-in Web server for management
Easy Admin Setup with http://1.2.3.4

User Accounting and Authentication
Login-page-based Authentication
User Authentication and Accounting
Logout Window Timer Control

Robust Security
Layer 2 isolation Security for Wireless and Wired networks
Secure HTML Login Page (SSL)
VPN (IPSec/PPTP/L2TP) Pass through

Physical Interface
WAN: One 10/100Base-T Ethernet
LAN: Four 10/100Base-T Ethernet
2dBi (Max) Dual detachable diversity antennas with reverse polarity SMA connectors
Power: 5V@ 2A Max
Wall-mounting option

LED Indicators
Power
Link/Activity
Four LAN Link/Activity LEDs
Wireless Link/Activity
Status

Dimensions
Size:
ZSG-100W: 6"(D) with antennas x 7.5"(W) x 1.5"(H)
Printer: 6"(D) x 3.5"(W) x 4.5"(H)

Weight:
ZSG-100W: 1lb
Printer: 1lb, 5.0 oz

Operating Environment
Temperature: 0°C~45°C (32°F~113°F)
Humidity: 10%~95% (non-condensing)

Printer - Account Generator Specifications

Features
One button operation to generate account information and print customer receipt
Easy opening and paper loading
Compact and lightweight
High speed printing: 3" per sec
High Resolution: 203 dpi, 8 dots per mm

Hardware Specifications
Direct thermal printer
Print width: 2"
Paper width: 2.25"
Interface: RS-232

ZyXEL
TOTAL INTERNET ACCESS SOLUTION

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