



WAS-102R

Network Access Control (Authentication, Authorization, Accounting), 1 WAN + 2 Public LAN + 2 Private LAN + 11g High Power AP + 50 concurrent users for Hot Spot & SMB + Thermo Printer

WAS-102R is an all-in-one / cost-effective Hot Spot in a box, which integrates 3A to Hot Spot venues can generate user accounts for a fee-based or free broadband Internet Access; Hot Spot solution specially designed for a public wireless network. It integrates "Access Control" and "high-Speed" secure wireless connection" into one system to fulfill the needs in a Hot Spot.

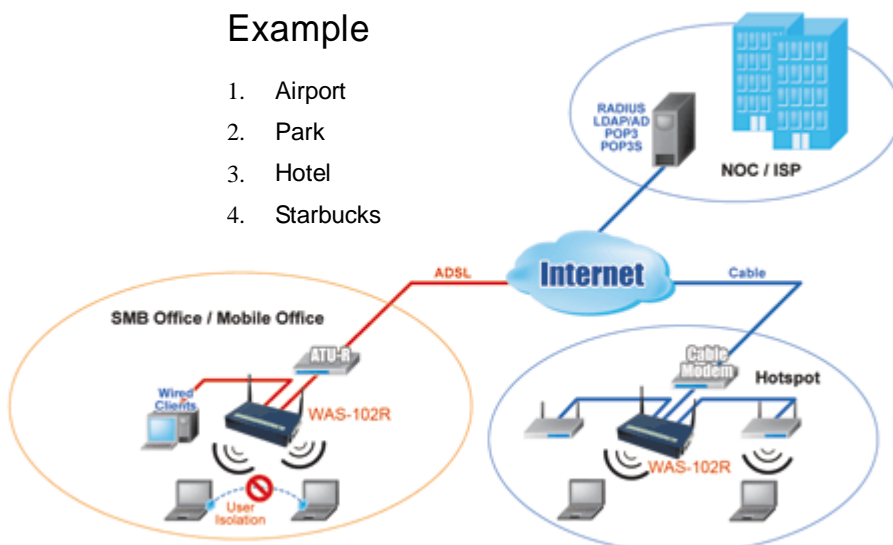
WAS-102R is not only a high performance wireless AAA gateway but also a powerful firewall with Denial of Service (DOS) protection. It supports 802.11g 54Mbps high-speed connection and is compatible with 802.11b standard. By connecting to more Wireless access points a Hot Spot can be easily extended with this flexible and scalable solution.

With our WAS-102R, it provides additional sources of revenues for a better Return on Investment (ROI). Your business or organization can provide customers or guests wireless Internet connection with zero configuration and bandwidth management while protecting your private network.

APPLICATION

Example

1. Airport
2. Park
3. Hotel
4. Starbucks



Features

1. Built-in user database provide sufficient account capacity for different operation scenarios
2. Works with instant account generator to provide user accounts for visitor-based, on-demand operations
3. Secure guest and administrator access using web-based login and administration over SSL
4. Standards-based encryption capabilities ensure privacy to user's device
5. Integrated user authentication: WEP, WPA, IEEE 802.1x
6. Integrated access point enables Wi-Fi access and eliminates the need for additional device
7. Complete authentication mechanism blocks unauthenticated users from access to the network
8. Role-based and policy-based control policies enhances the protection against malicious users
9. Configurable packet filtering policies enhance data traffic security
10. Allows session expiration control for guest or on-demand users by time and data volume
11. Programmable billing profiles allow operators to customize the billing plans for on-demand users
12. Bandwidth control enables class of service for different levels of users and maximize profits
13. Detailed per-user traffic history log for analysis and record keeping
14. Supports various broadband options (T1, DSL, Cable) via static IP, DHCP and PPPoE
15. Billing report gives a summary of transaction records for on-demand users
16. Paypal billing system, credit card and multiple billing plans for Internet access

Specification

Industrial Standard	
Standard	IEEE 802.11b / 802.11g Compliant IEEE802.3 10BaseT Ethernet IEEE802.3u 100BaseTX Fast Ethernet
Interface	WAN:1×10/100Base-TX Ethernet port LAN: 2 Private LAN Port, 2 Public LAN Port 1×RJ-11 Port (For Ticket Printer)
Security for Wireless	64/128 bit WEP Encryption IEEE802.1x Client(EAP-ALS, EAP, MD5 supplicant) WPA (TKIP, Pre-Share Key)
RF	
Frequency Band	2.400~2.484 GHz ISM band
Signal Type	DSSS & OFDM
Modulation	DSSS(DBPSK,DQPSK, CCK), OFDM(64-QAM,16-QAM,QPSK,BPSK)
Antenna	Diversity Antenna with 2dBi
Sensitivity	-91dBm @1Mbps, -84dBm @ 6Mbps,

	-75dBm @24Mbps,-90dBm @ 2Mbps, -82dBm @9Mbps,-73dBm @ 36Mbps, -89dBm @5.5Mbps,-79dBm @ 12Mbps, -70dBm @48Mbps,-87dBm @ 11Mbps, -77dBm @18Mbps,-68dBm @ 54Mbps,
Output Power	20dBm (100mW) /23dBm (200mW)
Channel	FCC: 11 Channels (US, Canada) ETSI: 13 Channels (Europe) TELEC: 14 Channels (Japan)
Software	
User Management	<ul style="list-style-type: none"> - Supports up to 50 concurrent users - Supports 500 local accounts - Supports 2,000 on-demand accounts - Provides guest accounts - Simultaneous support for multiple authentication methods (Local and On-demand accounts, POP3(S), LDAP, RADIUS, NT Domain server) - Role-based and policy-based access control (per-role assignments based on Firewall Policies, Routing, Login Schedule, Bandwidth, Quota, and Session Time) - User Session Management: <ul style="list-style-type: none"> (a) SSL protected login portal page (b) Supports multiple logins with one single account (c) Session idle timer (d) Session/account expiration control (e) Friendly notification email to provide a quick hyperlink to login portal page (f) Windows domain single sign on (g)Configurable login time frame
Security	<ul style="list-style-type: none"> - Supports data encryption: WEP(64/128-bit), WPA - Supports authentication: WPA-PSK, IEEE 802.1x (EAP-MD5, EAP-TLS, CHAP, PEAP) - Supports packet filtering policy - Supports VPN Pass-Through (IPSec and PPTP) - Supports DoS attack protection - Supports SSH Remote Management - Supports Layer 2 isolation - Supports MAC Access Control List - Configurable user Black List - Allows MAC address and user identity binding for - local user authentication
System Administration	<ul style="list-style-type: none"> - Multi-lingual, web-based management UI - Customizable login and logout portal page - Supports SNMP v2

	<ul style="list-style-type: none"> - Remote firmware upgrade - Supports NTP time synchronization - Console CLI support - Backup and restore of system configuration
Networking	<ul style="list-style-type: none"> - Wi-Fi standard: IEEE 802.11b/g - Supports Router, NAT mode - Supports Static IP, DHCP, PPPoE, PPTP Dial-up - Configurable LAN ports authentication - Supports IP Plug and Play (IP PnP) - Supports Inter-subnet roaming - Built-in DHCP Server and supports DHCP relay - Supports NAT: <ul style="list-style-type: none"> (a) IP/Port Destination Redirection (b) DMZ Server Mapping (c) Virtual Server Mapping (d) H.323 Pass-Through - Configurable static route - Supports Walled Garden (free surfing zone) - Supports MAC Address Pass-Through - Supports HTTP Proxy - Throughput: 90 Mbps
Accounting and Billing	<ul style="list-style-type: none"> - Provides built-in billing profiles for on-demand accounts - Enables session expiration control for on-demand accounts by time (hour) and data volume (MB) - Provides billing report on screen for on-demand accounts - Detailed per-user traffic history based on time and data volume for both local and on-demand accounts - Provides traffic history report in an automatic email to administrator
Hardware	
Hardware Platform	CPU : IXP420 266MHz RAM : 64Mb Flash : 32Mb
Environment	Operating Temperature: 5~45°C Storage Temperature: -20~70°C Humidity: 5% ~ 95% non-condensing
Power Supply	12VDC
LED Indicators	Power, WAN Link, LAN LAN/ACT & COL/FDX
Dimensions	248(L) X 149(W) x 47(H) mm
Certificate	FCC, CE