



We Connect the World



# WAS-102

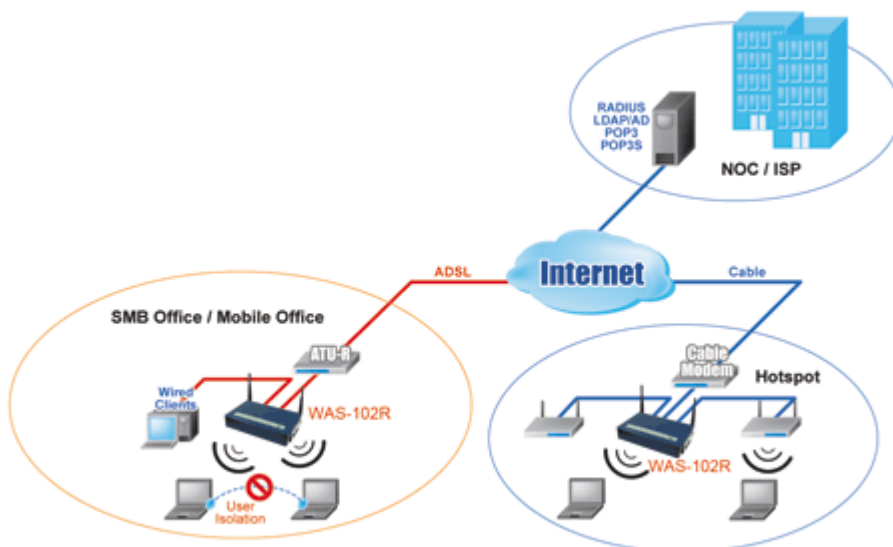
Network Access Control (Authentication, Authorization, Accounting), 1 WAN + 2 Public LAN + 2 Private LAN + 11g High Power AP + 50 concurrent users for Hot Spot & SMB + Thermo Printer

WAS-102 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-102 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-102, 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



## 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

## 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)
<b>Software</b>	
User Management	<ul style="list-style-type: none"> <li>- Supports up to 50 concurrent users</li> <li>- Supports 500 local accounts</li> <li>- Supports 2,000 on-demand accounts</li> <li>- Provides guest accounts</li> <li>- Simultaneous support for multiple authentication methods (Local and On-demand accounts, POP3(S), LDAP, RADIUS, NT Domain server)</li> <li>- Role-based and policy-based access control (per-role assignments based on Firewall Policies, Routing, Login Schedule, Bandwidth, Quota, and Session Time)</li> <li>- User Session Management: <ul style="list-style-type: none"> <li>(a) SSL protected login portal page</li> <li>(b) Supports multiple logins with one single account</li> <li>(c) Session idle timer</li> <li>(d) Session/account expiration control</li> <li>(e) Friendly notification email to provide a quick hyperlink to login portal page</li> <li>(f) Windows domain single sign on</li> <li>(g)Configurable login time frame</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>- Supports data encryption: WEP(64/128-bit), WPA</li> <li>- Supports authentication: WPA-PSK, IEEE 802.1x (EAP-MD5, EAP-TLS, CHAP, PEAP)</li> <li>- Supports packet filtering policy</li> <li>- Supports VPN Pass-Through (IPSec and PPTP)</li> <li>- Supports DoS attack protection</li> <li>- Supports SSH Remote Management</li> <li>- Supports Layer 2 isolation</li> <li>- Supports MAC Access Control List</li> <li>- Configurable user Black List</li> <li>- Allows MAC address and user identity binding for local user authentication</li> </ul>
System Administration	<ul style="list-style-type: none"> <li>- Multi-lingual, web-based management UI</li> <li>- Customizable login and logout portal page</li> <li>- Supports SNMP v2</li> </ul>

	<ul style="list-style-type: none"> <li>- Remote firmware upgrade</li> <li>- Supports NTP time synchronization</li> <li>- Console CLI support</li> <li>- Backup and restore of system configuration</li> </ul>
Networking	<ul style="list-style-type: none"> <li>- Wi-Fi standard: IEEE 802.11b/g</li> <li>- Supports Router, NAT mode</li> <li>- Supports Static IP, DHCP, PPPoE, PPTP Dial-up</li> <li>- Configurable LAN ports authentication</li> <li>- Supports IP Plug and Play (IP PnP)</li> <li>- Supports Inter-subnet roaming</li> <li>- Built-in DHCP Server and supports DHCP relay</li> <li>- Supports NAT: <ul style="list-style-type: none"> <li>(a) IP/Port Destination Redirection</li> <li>(b) DMZ Server Mapping</li> <li>(c) Virtual Server Mapping</li> <li>(d) H.323 Pass-Through</li> </ul> </li> <li>- Configurable static route</li> <li>- Supports Walled Garden (free surfing zone)</li> <li>- Supports MAC Address Pass-Through</li> <li>- Supports HTTP Proxy</li> <li>- Throughput: 90 Mbps</li> </ul>
Accounting and Billing	<ul style="list-style-type: none"> <li>- Provides built-in billing profiles for on-demand accounts</li> <li>- Enables session expiration control for on-demand accounts by time (hour) and data volume (MB)</li> <li>- Provides billing report on screen for on-demand accounts</li> <li>- Detailed per-user traffic history based on time and data volume for both local and on-demand accounts</li> <li>- Provides traffic history report in an automatic email to administrator</li> </ul>
<b>Hardware</b>	
Hardware Platform	CPU : IXP420 266MHz RAM : 64Mb Flash : 32Mb
Environment	Operating Temperature:5~45℃ Storage Temperature:-20~70℃ 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
<b>Printer Hardware</b>	
Printing method	Direct thermal
Printing speed	50 ( mm / sec )
Number of columns	32 columns
Character Structure	12 x 24 (alphanumeric)

Paper detection	Paper end, Thermal head up
Thermal head service life	50 Km
Recommended thermal paper material	Single-ply thermal paper roll
Power Supply	DC 9-12V, 3A
Interface	RS-232C (DB25, RJ-11), Printer Port
Dimensions	200 (L) × 122(W) × 117(H)mm

## **PheeNet Technology Corp.**

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