



## UAG50

### Unified Access Gateway

It's quite troublesome to deploy networks in smaller public areas such as coffee shops, bistros or bars. Providing Internet access is always a necessary but tiring job to meet customer expectations, however venue owners must complete complex Internet framework setup tasks to manage access and prevent bandwidth abuse.

The ZyXel UAG50 Unified Access Gateway is a brand-new all-in-one access hotspot that combines a wireless access gateway and a built-in thermal ticket printer. The device is designed to fulfill the needs of small venue owners with limited resources to provide the best services and quality with less setting and management effort.

### Benefits

#### New All-in-One hotspot with the best TCO

The ZyXel UAG50 is a brand-new All-in-One wireless hotspot/access gateway that integrates AP, router, AAA gateway and thermal printer functions, and it generates user accounts and passwords for Internet access with just a press on the button to relieve receptionists from complicated operations. With the ZyXel UAG50, multi-device deployment, integration and maintenance routines are no longer headaches for venue owners.

#### Generating revenue

The ZyXel Unified Access Gateway is designed with advanced billing, user authentication and access control features that help venue owners service guest accounts, block unauthorized access and generate revenue with their Internet services. It gives owners the flexibility to offer Wi-Fi access as a free service, a tiered service (premium when a purchase is made) or a paid service, depending on the preferred decision for the venue.



Built-in thermal printer



Supports 100 concurrent logins



Integrated account generator, Web-based authentication portal and billing system



Supports 10 billing profiles



Supports external RADIUS servers



Equal bandwidth management



Facilitates compliance with data retention regulations

Datasheet [UAG50](#)

## Increasing customer loyalty

In smaller public areas such as coffee shops, bistros or bars, almost every customer has wireless-capable mobile devices such as smartphones, tablets and even laptops on hand. To satisfy this fast-growing demand, venue owners need a solution that provides ideal Wi-Fi bandwidth, capacity and performance. The Zyxel UAG50 supports up to 50 users and gives equal bandwidth to each user for them to enjoy high-quality Wi-Fi Internet access, which leads to higher customer loyalty.

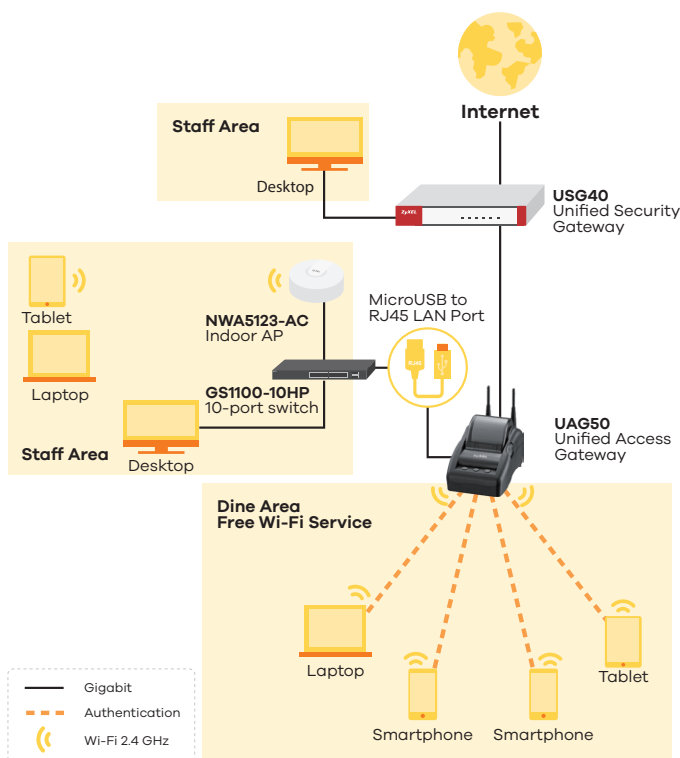
## Meeting the challenges of future auditing

To address information security concerns, venue owners are sometimes required to retain Internet usage records for a certain amount time; and this can become a significant burden for the businesses without the right equipment. The Zyxel UAG50 helps resolving the challenges: its built-in syslog server automatically record user account information, MAC addresses, source and destination IPs for future auditing requirements.

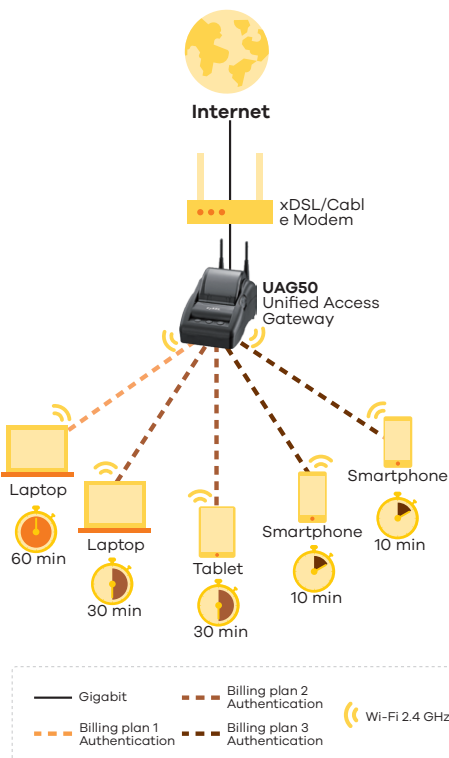
## Key Applications

- UAG50 provides a MicroUSB-to-RJ45 LAN port for further usage.
- At vendors providing free Wi-Fi services, customer can access the Internet by just pushing a button to complete authentication without other unnecessary procedures.
- UAG50 provides several billing models to suit different business tactics.
- Vendors can also set different billing terms depending on access time, so customers can choose from different buttons on demand for the required authentication process to connect to the Internet.


### Café Shop Application Free Wi-Fi Service



### Bistro Application Time/Quota Wi-Fi Service



## Specifications

<b>Model</b>	<b>UAG50</b>		
			
<b>Hardware Specifications</b>			
10/100 Mbps RJ-45 ports	1 x USB LAN, 1 x WAN		
USB ports	1		
Ticket printer support	Yes (All-in-One)		
<b>System Capacity &amp; Performance<sup>1</sup></b>			
Routing throughput (Mbps) <sup>2</sup>	> 85Mbps (TCP upstream)		
Concurrent Device Upgrade (default/max.)	100/100		
Max. concurrent sessions <sup>3</sup>	16,385		
DHCP pool size	253		
Built-in account generator	Static accounts	-	
	Dynamic accounts	256	
<b>Wireless Specifications</b>			
Standard compliance	802.11 b/g/n		
Wireless frequency	2.4 GHz		
Radio	1		
SSID number	8		
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz	18 dBm, 2 antennas	
	EU (ETSI) 2.4 GHz	18 dBm (EIRP), 2 antennas	
No. of antenna	2.4 GHz: 2T2R MIMO (Detachable, SMA-R)		
Antenna gain	2 dBi		
Data rate	802.11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)		
Receive sensitivity	2.4 GHz	11b: -71 dBm @10% PER; 11g: -71 dBm @10% PER; 11n: -85 dBm @10% PER	
<b>AAA &amp; Billing</b>			
Web-based authentication	Yes		
RADIUS client	Yes		
Time-to-finish/Accumulation billing modes	Yes/Yes		
Customizable billing profiles	Yes		
Account operator	Yes		
User agreement	Yes		
SMS ticketing	-		
<b>Security</b>			
Firewall	Yes		
Layer 2 isolation	Yes		
VPN pass-through	Yes		
IPSec VPN	-		
802.1x support	Yes		
<b>Management</b>			
Syslog	Yes		
SNMP	Yes (read only)		
Limited user sessions	Yes		
Pass-through address	Yes		
Walled garden	Yes		

<b>Model</b>	<b>UAG50</b>	
<b>Customizable login page</b>	Yes	
<b>Customizable user agreement page</b>	Yes	
<b>Power Requirements</b>		
<b>Power input</b>	100 - 240 VAC, 50/60 Hz	
<b>Max. power consumption (watt)</b>	12 V, 1.5 A	
<b>Physical Specifications</b>		
<b>Item</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	109 x 155 x 90/4.29 x 6.10 x 3.54
	<b>Weight (g/lb.)</b>	828.4/1.83
<b>Packing</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	150 x 190 x 145/5.91 x 7.48 x 5.71
	<b>Weight (g/lb.)</b>	1,049/2.31
<b>Included accessories</b>	Antenna x 2, Micro USB to Ethernet convertor, Power adapter, Thermal paper, Paper roller	
<b>Environmental Specifications</b>		
<b>Operating environment</b>	<b>Temperature</b>	0°C to 50°C/32°F to 122°F
	<b>Humidity</b>	20% to 80% (non-condensing)
<b>Storage environment</b>	<b>Temperature</b>	-10°C to 60°C/14°F to 140°F
	<b>Humidity</b>	20% to 95% (non-condensing)
<b>MTBF (hr)</b>	42,486	
<b>Certifications</b>		
<b>EMC</b>	EMC FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	
<b>Safety</b>	LVD (EN60950-1), BSMI	

Note:

\*1: Actual performance may vary depending on network conditions and activated applications.

\*2: Routing throughput measured using the industry standard IXIA IxLoad testing tool (1,460-byte TCP packets).

\*3: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

## Features

### Network Service

- IEEE 802.11 b/g/n (SRSB)
- Wireless 2T2R 2.4 GHz with 300 Mbps high speed network
- User agreement
- Advertisement link
- Walled garden
- HTTP proxy support
- SMTP redirection
- VPN pass-through
- WAN client: static, DHCP, PPPoE, PPTP
- DDNS

### Security

- 64/128-bit WEP data encryption
- WPA/WPA2 data encryption
- L2 isolation
- Pass through IP/MAC address
- Equal bandwidth management
- Compliant of EU data retention law

### AAA and Billing

- Ticket printer for EZ service
- Web-based authentication
- User agreement login
- External RADIUS support
- Secondary RADIUS server support
- Built-in billing system
  - Time-to-finish accounting mode
  - Accumulation accounting mode
- 10 customizable billing profiles
- Online payment via PayPal or Authorize.net
- RADIUS AAA support

### Marketing

- Advertisement link
- Walled garden
- Login page redirection
- Portal page
- Customizable login page
- Customizable information window
- Customizable user agreement page

### System Management

- Administrator access: WAN and LAN
- Web management (HTTP/HTTPS)
- Secure administrator IP address
- SNMP v2 (ready only)
- Configuration backup and restoration
- Role-based administration (Admin, guest operator)

### Monitoring and Reporting

- Syslog
- Account log
- Session trace (data retention)
- Session list
- Account list
- DHCP client list
- Current user list

For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)

Copyright © 2017 Zyxel Communications Corp. All rights reserved. Zyxel, Zyxel logo are registered trademarks of Zyxel Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.



5-100-00916004 01/17

Datasheet UAG50