



## Brand-new All-in-One Access Hotspot Combines Gateway, Printer and Others for Smaller Businesses

- Built-in thermal printer
- Supports 50 concurrent log-ins
- 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

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.

#### 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.



**UAG50**  
Unified Access Gateway

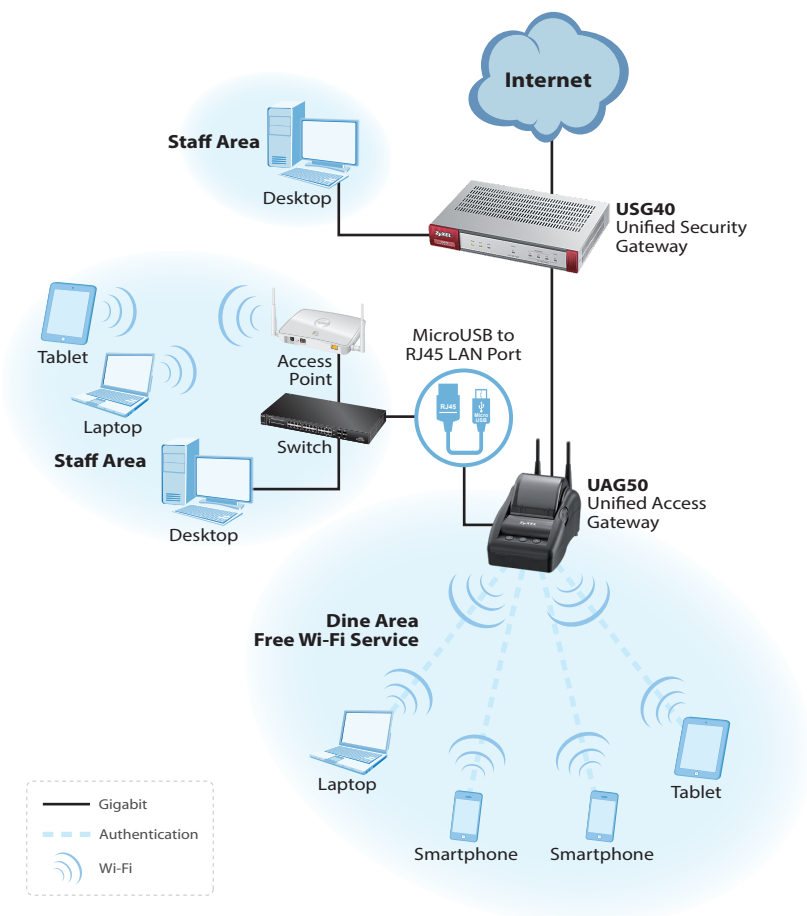
### Meeting the challenges of future auditing

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.

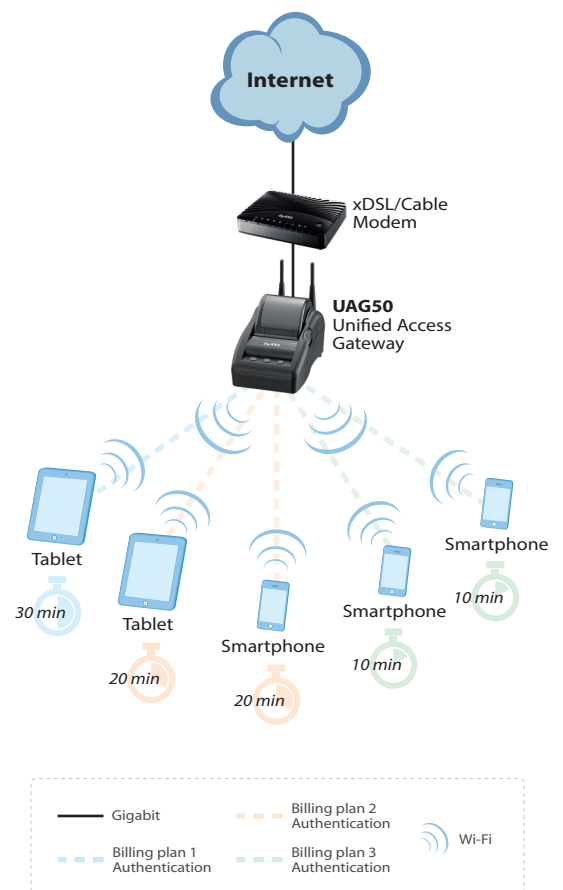
### Key Applications

- UAG50 provides a MicroUSB-to-RJ45 LAN port for further usage.
- UAG50 provides several billing models to suit different business tactics.
- At vendors providing free Wi-Fi services, customer can access the Internet by just pushing a button to complete authentication without other unnecessary procedures.
- 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

Model		UAG50
<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>		>80 Mbps (TCP upstream)
Concurrent logins (default/max.)		50/50
Max. concurrent sessions <sup>3</sup>		16,384
DHCP pool size		253
Built-in account generator	Static accounts	-
	Dynamic accounts	256
<b>WLAN Management</b>		
Built-in WLAN controller		-
Managed AP number (default/max.)		-
SSID		-
<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
	US (FCC) 5 GHz	-
	EU (ETSI) 2.4 GHz	18 dBm (EIRP), 2 antennas
	EU (ETSI) 5 GHz	-
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 802.11a: 6, 9, 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
	5 GHz	-
<b>WAN</b>		
WAN load-balancing/failover		-/-
<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
Customizable login page		Yes
Customizable user agreement page		Yes

Model		UAG50
<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 145/5.90 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)



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