AirLive®

AirMax4GW
4G LTE + WiFi Outdoor Gateway

Solution
System Integrator

WHITE PAPER

OvisLink Corp. www.airlive.com
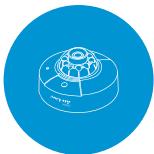
Hardware Specification

The AirMax4GW is a standalone 4G LTE outdoor gateway that can distribute 4G or 3G Internet signal through WiFi or Ethernet connections. It is equipped with high gain LTE and WiFi antennas for better reception and transmitting distance.
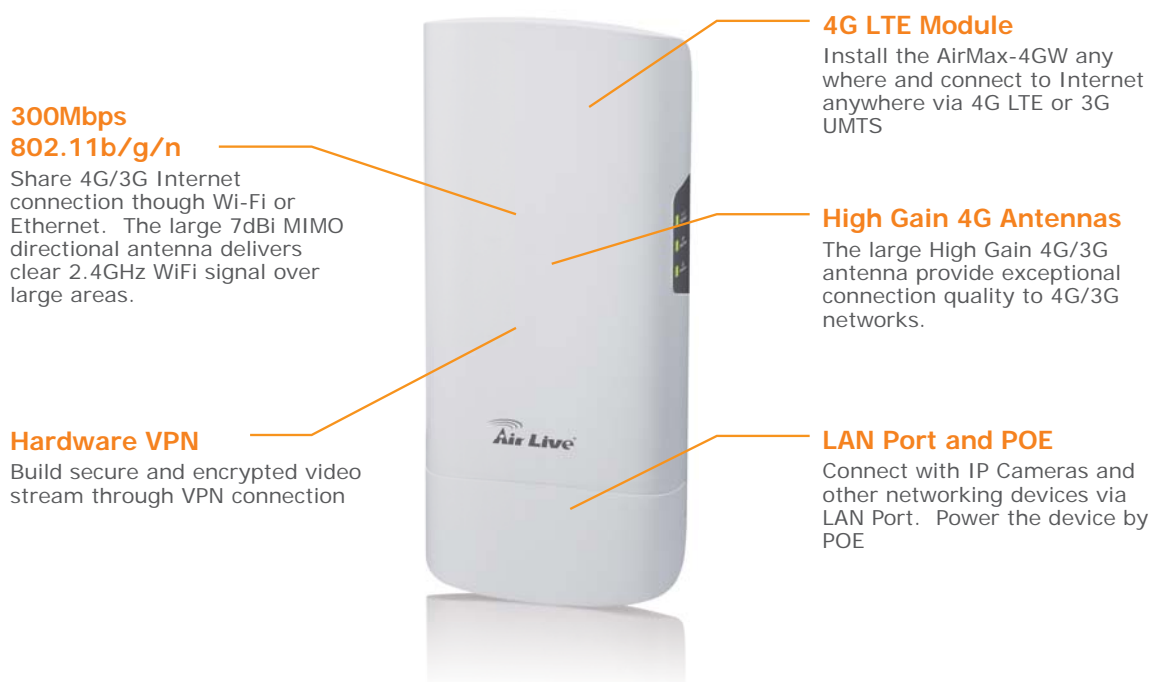
Bridge between WiFi, Ethernet, and 4G/3G Networks

The AirMax4GW bridges the connections between WiFi, Ethernet, and the 4G LTE Mobile Network. With AirMax4GW, you can connect any WiFi or Ethernet equipped devices to the broadband Internet. On the other hand, you can also provide Internet service coverage through WiFi in any locations.
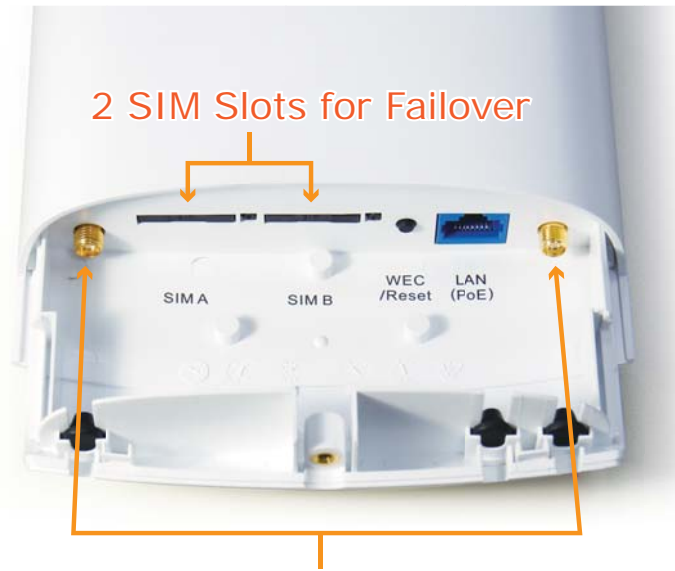
NB

WiFi
IPCAM

WiFi

4G/3G

Internet

AirMax4GW

IPCAM

Ethernet

Hardware Diagram

4G LTE Module
Install the AirMax-4GW any where and connect to Internet anywhere via 4G LTE or 3G UMTS

300Mbps 802.11b/g/n
Share 4G/3G Internet connection though Wi-Fi or Ethernet. The large 7dBi MIMO directional antenna delivers clear 2.4GHz WiFi signal over large areas.

High Gain 4G Antennas
The large High Gain 4G/3G antenna provide exceptional connection quality to 4G/3G networks.

Hardware VPN
Build secure and encrypted video stream through VPN connection

LAN Port and POE
Connect with IP Cameras and other networking devices via LAN Port. Power the device by POE

Port and Connectors

2 SIM Slots for Failover

SIM A   SIM B   WEC /Reset   LAN (PoE)

SMA Connectors for
External 4G/3G Antennas

Dual High Gain Antennas

The AirMax4GW features high gain and high sensitivity 4G LTE antennas. So it can receive 4G or 3G mobile signal where normal mobile phone can not. In addition, it also has a high gain WiFi antenna which can send out wireless signal over large area. This is ideal for system integrators to install Internet service or connect networking devices to the Internet for their customers.

High Gain LTE Antenna

Base Station

NB

2.4Ghz

4G/3G

Tablet PC

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AirMax4GW

High Gain WiFi Antenna

Remote 4G/3G

Dual SIM Card for Redudancy

It is important for service provider to provide uninterrupted service. In case of AirMax4GW, it comes with dual SIM Slots. So System Integrators can put 2 different SIM Cards for fail over. When one 4G service is down or too slow, it can switch to another service providers.

4G/3G Operator A

4G/3G Operator B

AirMax-4GW

Application Environments

Remote IPCAM Installations

If you want to install IP cameras in remote locations or in places where it is difficult to get Internet connections, the AirMax4GW is your best solution. AirMax4GW connects the IP cameras to remote recording server and let users do video live view anywhere from Internet. It can do so very securely using the built-in VPN function.

IPCAM

AirMax4GW

IPCAM
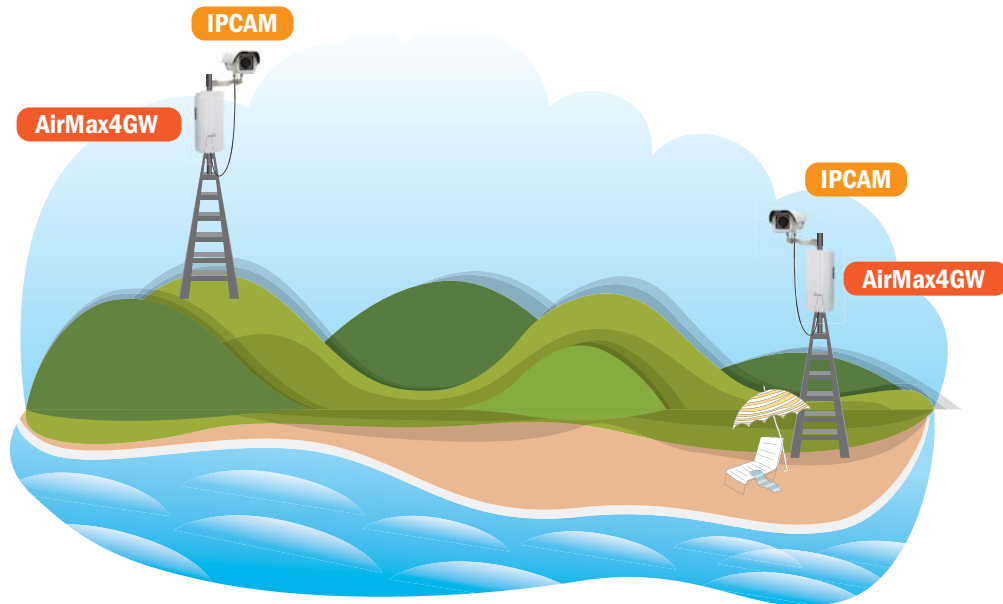
AirMax4GW

Internet Service for Events

When there is Internet service need for outdoor events such as outdoor concerts, camping, sports event, flea market, business summit,and fairs; the AirMax4GW is the perfect solution for quick deployment. Its powerful and sensitive antennas can receive 4G/3G signal far better than mobile phones and deliver the WiFi over large area.

WiFi

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Parks, Camping Site, and Golf Course

System Integrations often receive requests for WiFI internet in locations where wires are either prohibited or expensive to deploy. The AirMax4GW is the only solution to satisfy these requirements.

AirMax4GW

AirMax4GW

Software Functions

The AirMax4GW has critical software featues that are important for WISP applications.

Powerful Wireless Functions

The AirMax4GW features Virtual AP functions for up to 8 SSIDs. Each virtual APs can have different encryption scheme, maximum number of users, and availability schedule. It allows the system integrations to configure the wireless exactly to meet their customer's requirement.

Virtual AP1

● WPA2-PSK Encryption
● Available: 9am~5pm
● 10 Maxman Clients

AirMax4GW

Virtual AP2

● 802.1x Authentication
● Available: All time
● 15 Maxman Clients
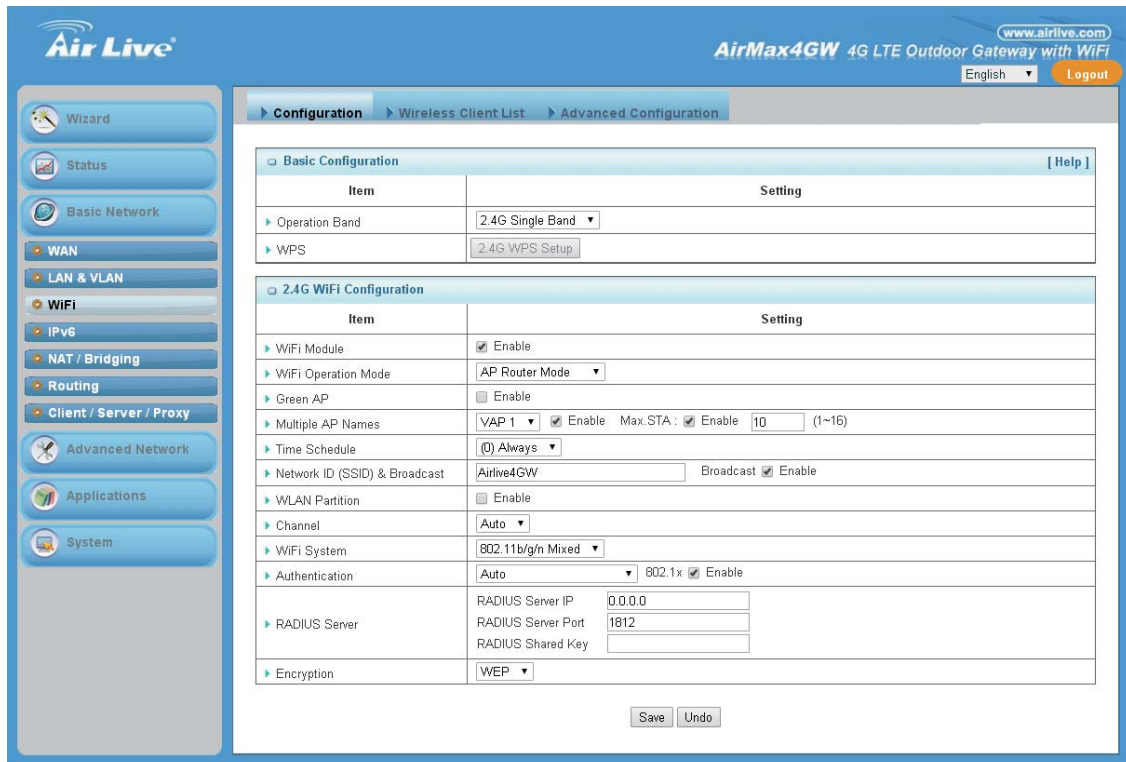
Policy Based Bandwidth QoS Firewall

AirMax4GW's enterprise class firewall let administrators control the user's access exactly as needed. You can define the bandwidth and QoS for each device and user to guarantee or limit the bandwidth. You can limit access to certain website or ban certain P2P application from running.
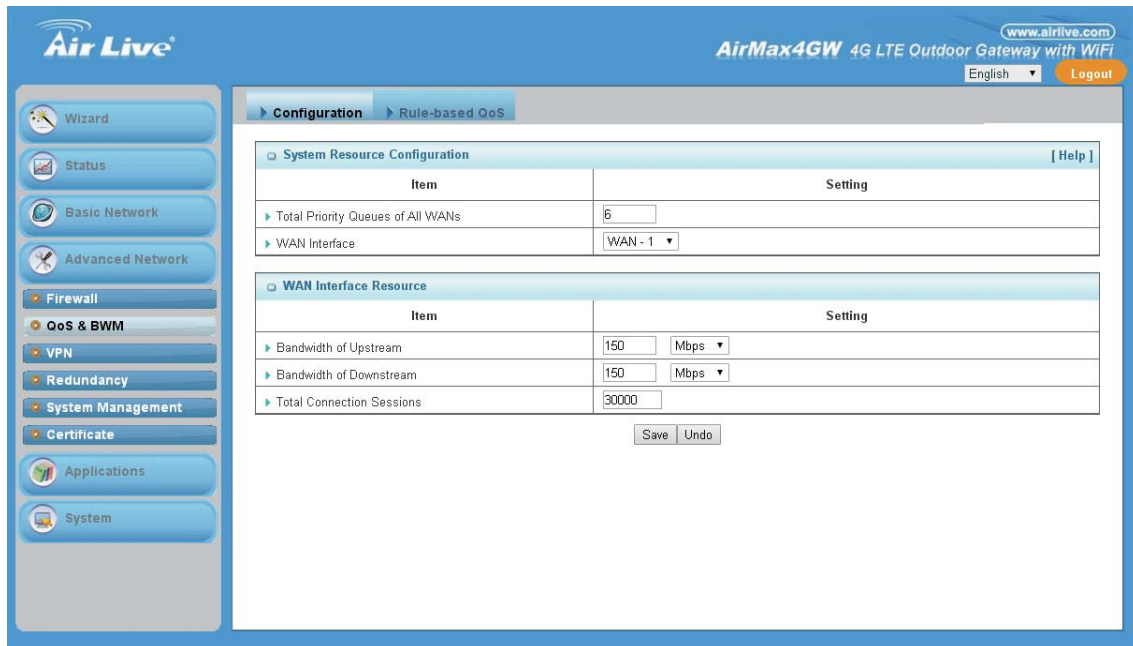
Secured VPN Connection

The AirMax4GW's VPN function provide secure video transmission over VPN encryption. Therefore, you do not need to worry about leaking sensitive information and keep live video image from prying eyes. Administrators has the choice of using IPsec, PPTP, L2TP, or GRE protocols for encryption.
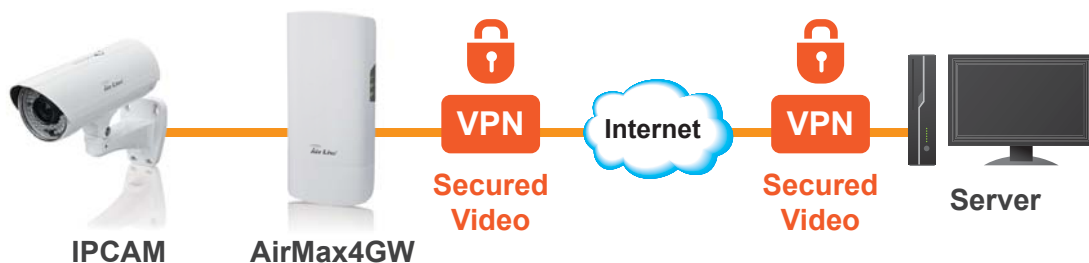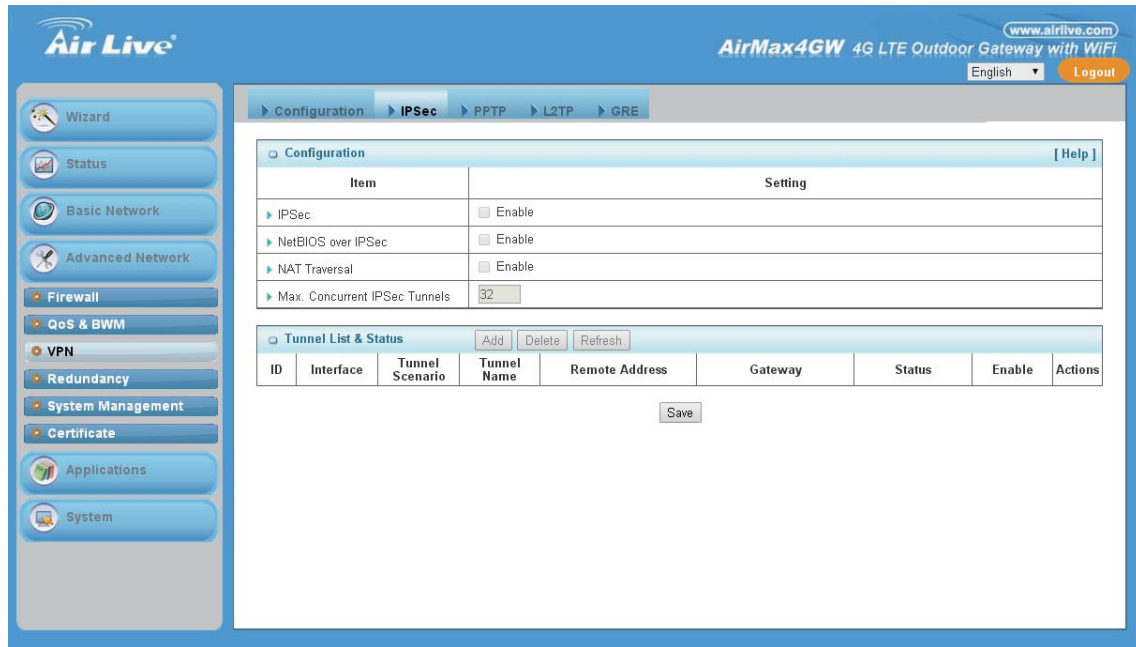
Captive Portal

The captive Portal function will redirect wireless users to a specific remote landing web page where provider can show their service information and request users to enter their login information.

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Landing Page

Remote Radius and UAM server

Operator can enter the remote Radius server information so when users try to login into the Internet service, they will be required to enter user name and password.

NB   AirMax4GW   Radius Server   UAM Server

External Server Configuration	
Item	**Setting**
▶ Server Name	hotspotsystem
▶ Server IP/FQDN	hotspotsystem.com
▶ Server Port	80
▶ Server Type	UAM Server ▼ Login URL: https://customer.hotspotsys Shared Secret: hotsys123 NAS/Gateway ID: Airlive Location ID: 1 Location Name: airlive
▶ Server	☑ Enable
	Save

Versatile Management

The AirMax4GW can be managed via Web, TR069, SNMP, and CLI commands. It provides the WISP operators their prefered way for managing the device.
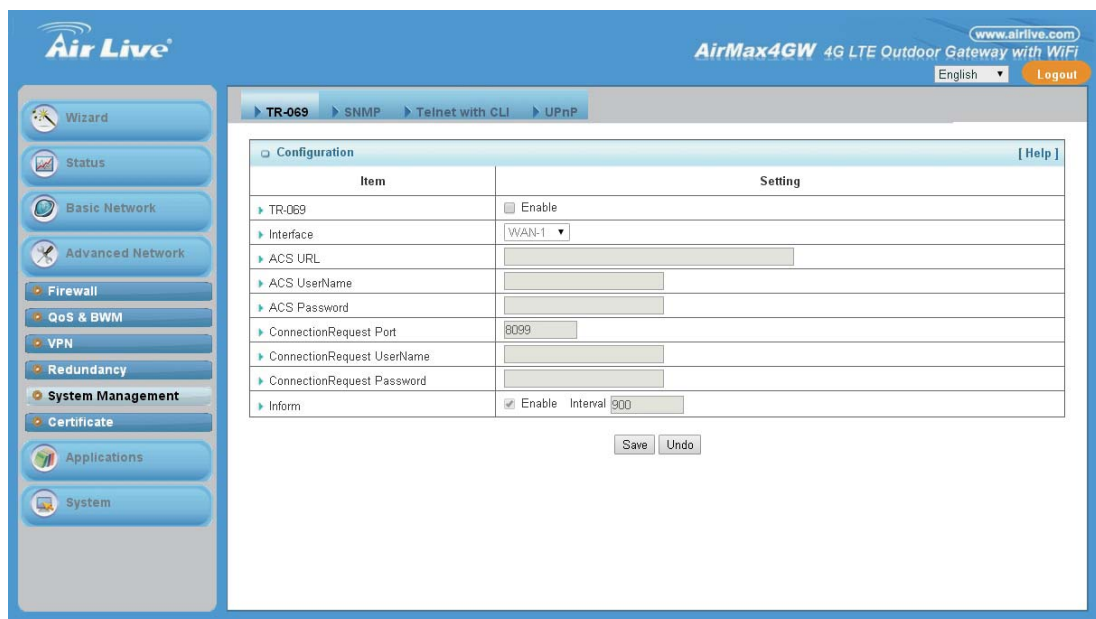
SMS Short Message

The AirMax4GW allow the administrators to send basic commands and get status via SMS message. Therefore, the operators do not need to know the device's IP address and still able to do simple managements and check status with the AirMax4GW.

AirMax4GW

Smart Phone

You can limit to accept SMS message commands only from specific phone numbers for security.