

AirMax4GW

4G LTE + WiFi Outdoor Gateway

WISP Applications

WHITE PAPER









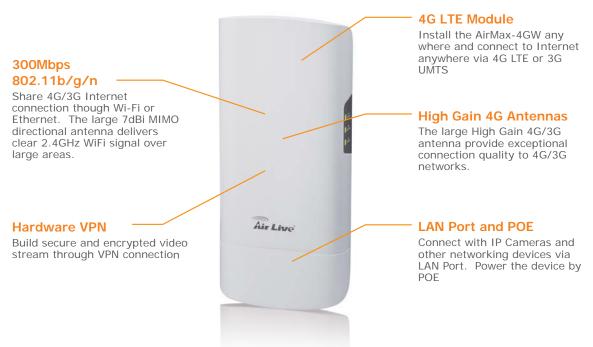


Hardware Specification

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.

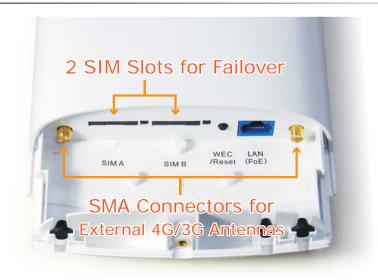


Hardware Diagram





Port and Connectors









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 WISP applications for providing Internet service in remote village, camping site, or beach areas where wired or wifi connections are hard to reach.





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 WISP providers 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.







Application Environments



Remote Villages

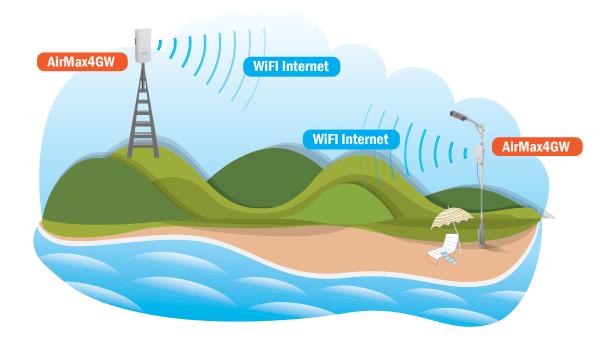
In remote area where it is too far from phone center to get ADSL connection, the AirMax4GW provides the easiest way for provide Internet service to the areas.





Sea Side and High Mountain

In those areas where deployment of wired is expensive and intrusive, the AirMax4GW provides an immediate way for providing Internet services to the customers. When you need to provide Internet service these remote locations, the AirMax4GW is the easiest and most cost saving method for WISP operators









Park, Camping Site, and Golf Course

In those areas where deployment of wired is expensive and intrusive, the AirMax4GW provides an immediate way for providing Internet services to the customers.







Software Functions

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



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.



| Captive Portal Configuration | |
|------------------------------|---|
| Item | Setting |
| ▶ Captive Portal | ✓ Enable |
| ▶ WAN Interface | WAN-1 ▼ |
| ▶ LAN Subnet | DHCP-1 ▼ |
| ▶ Authentication Server | External RADIUS Server ▼ Hotspot system ▼ |
| ▶ UAM Server | |

Save Refresh



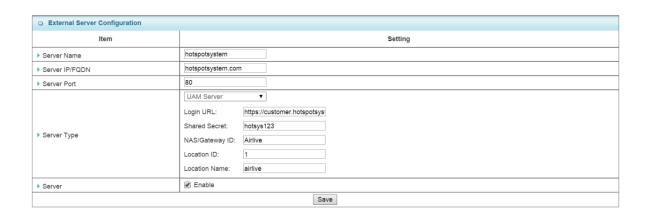
Remote Radius and UAM server

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.











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.









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

