

Operational Description

The Multi-Service Wireless Gateway is a standard 10/100BaseT including five network cables with RJ-45 connectors.

The WAN port is used to connect to a network which is not managed by the AirLive WIAS-1200G, and this port can be used to connect the ATU-Router of ADSL, the port of Cable Modem, or the Switch or Hub on the LAN of a company. The LAN1/LAN2 ports are connected to the managed network or WLAN. They can be selected to require or not require authentication to access network resources and Internet. The two LAN3/LAN 4 ports are connected to a trustful network where the users can always use the network resources without authentication. This port can be connected to a server such as File Server or a Database Server, etc.

The Multi-Service Wireless Gateway with a built-in 2.4GHz transceiver. There are 11 channels in 2412 – 2462MHz. The channels are separated by 5MHz. This device supports the data rates of 1, 2, 5.5, 11Mbps in 802.11b mode and 6, 9, 12, 18, 24, 36, 48, 54Mbps in 802.11g mode. The signals are modulated by DSSS in 802.11b mode and OFDM in 802.11g mode. The antenna type is Dipole. AirLive WIAS-1200G is an all-in-one product specially designed for small wireless network environment. It integrates “Access Control” and “Wireless Network Access” into one system to fulfill the needs in Hotspot environment. AirLive WIAS-1200G supports 802.11b and 802.11g dual wireless transmission modes. With the protection by AirLive WIAS-1200G, users must be authenticated before logging in to the network, and the administrator can assign a fine-grained priority to each user stratifying the scope and right of using network resources. The full web-based management interface allows users to operate and manage the system online via browsers. Users can easily log on to the system via browsers without any additional software installation.

AirLive WIAS-1200G supports POP3 (+SSL), RADIUS, LDAP and NT Domain external authentication methods, and allows integration of the current user password database. This system also provides a built-in local user database. AirLive WIAS-1200G is responsible for user authentication, authorization and management. The user account information is stored in the local database or a specified external databases server. The user authentication is processed via the SSL encrypted web interface.

The whole managed network includes the cable network users and the wireless network users. The users located at the managed network will be unable to access the network resource without permission. When the browser of a user attempts to connect to a website, the AirLive WIAS-1200G will force the browser to redirect to the user login webpage. The user must enter the username and password for authentication. After the identity is authenticated successfully, the user will gain proper access right defined on the AirLive WIAS-1200G.