

SUMMARY

The GL500 is a network gateway developed to implement the features of the Guglielmo platform on areas with a large number of users.

The GL500 activates a secure connection with the Guglielmo Cloud and performs several functions related to users authentication authorization and accounting (AAA), data collection and business intelligence, network control and IoT services.

Leveraging the resources provided by the GL500, Guglielmo platform is able to provide innovative and advanced services, enabling the hotspot as a platform for a new generation of applications.

TECHNICAL SPECIFICATIONS

- CPU Intel i3 family or Xeon 2 or 4 core
- RAM: 8 GB or 16 GB
- Network Interfaces: 2 or 4 Gbit ethernet
- Hard Disk: SAS, 500 GB or 1 TB
- Network interface: n. 4 ports LAN 10/100Base-T Ethernet, RJ-45
- Assembly: rack 19"
- Supply: 160-240 Vac 50Hz/60Hz
- Consumption: 4 20 W
- Temperature: -10°C ÷ +65°C
- Certification: CE, EN300328, EN301893, EN301489-1, EN301489-17, ROHS
- Dimension: 434 x 394 x 43 mm
- Weight: 4000 g



SERVICES

Three main software modules on the GL500, working together and connected to the Guglielmo platform, provide advanced types of services.

LUMEN™ module provides extremely flexible services for the hotspot management, such as users authentication and policy enforcement.

Caligoo™ module provides services for Business Intelligence and Network Control, implementing a deep interaction with mobile App or external applications, for advanced services such as automated login procedures, notifications and QoS policy enforcement.

IoT hub module provides connectivity for sensors and actuators and local IoT resources discovery and service consumption.

Fog Computing module The GL500 can also locally provide and control resources such as memory, computing and networking, implementing also a virtualization infrastructure for Virtual Machines or Linux Containers, in order to host other machines or applications, such as Proxy, VPN terminators, Wireless Lan Controllers, etc..., with a local access to resources.

VMware® Module: The GL500 can also provide a virtualization infrastructure, based on VMware ESX 5.5, in order to host other machines such as Proxy, VPN terminators, Wireless Lan Controllers, etc...



MAIN FEATURES

- Configurable hardware
- Up to 20000 simultaneous connected users in normal configuration
- Expandable in cluster with Load Balancing, Fault Tolerance or High Availability configuration
- VPN to Guglielmo Cloud
- Full Support of Layer 2 (switched) or Layer 3 (routed) connectivity to users devices
- Radius Client
- Complete management AAA (Authorization, Authentication and Accounting)
- DHCP Server, DHCP Client, DHCP relay
- NAT (PAT)
- Static routes support
- Support of VLAN and IEEE 802.1q trunk
- Redirection to customized login portal
- Management and Authentication traffic on https with valid SSL certificate (not self-generated)
- White list: list of URLs, IP addresses or subnets reachable before the authentication, dynamically updated
- Black list: list of unreachable URLs or IP addresses, dynamically updated
- Internal list of banned devices, not authorized to browse
- Redirection after authentication to the requested web site or to other web site with configurable URL
- Bandwidth limiting for user
- Configurable integrated firewall
- Content filtering applicable
- Configurable traffic shaping
- Centralized platform for Firmware Upgrade
- Optional VMware ESX 5.5