



SPARK USG250

Embedded Service Delivery Gateway



Features

Low cost fully featured service delivery gateway. The USG250 is a fully integrated wireless or wired network management gateway. Comprising single or dual 100Mb/s WAN ports, the USG250 offers 100Mb/s LAN and 9 pin DIN console port. Powered by a low voltage adaptor the USG250 consumes very low power. The gateway is solid state with no moving parts, fans or HDDs.

Bandwidth Control

Independent control of user bandwidth upstream and downstream. User cases allow different profiles for multiple users on the same access point or access point network.

Captive Portal Redirector

The USG250 is responsible for intercepting the http requests from user browsing sessions. Sessions are captured and forwarded to a destination of your choice (usually the WiFi SPARK Managed Service).

Walled Garden

For those venues wishing to offer their guests access to a predetermined set of web pages, the USG250 supports unlimited numbers of free to use sites as part of its "Walled Garden" capability. Sites may be specified as IP or DNS addresses.

MAC Authentication

The USG250 supports full authentication by MAC address, either via preconfigured pass through MAC tables or via the WiFi SPARK Managed Service.

Robust management of small to medium WiFi or wired networks.

The USG250 Embedded Service Delivery Gateway integrates wired, wireless and security networking features into a compact and easy to use form factor, enabling organisations to quickly deploy a managed WiFi network. The USG250 is the first in the range of Gateways from WiFi SPARK and is ideal for single HotSpots and small networks as well as for mass deployments of small or public access networks.

Common across all WiFi SPARK Gateways, the SPARK codebase on the USG250 allows for a fully featured, high performance Gateway, supporting up to 250 registered users and up to 4096 associated devices.

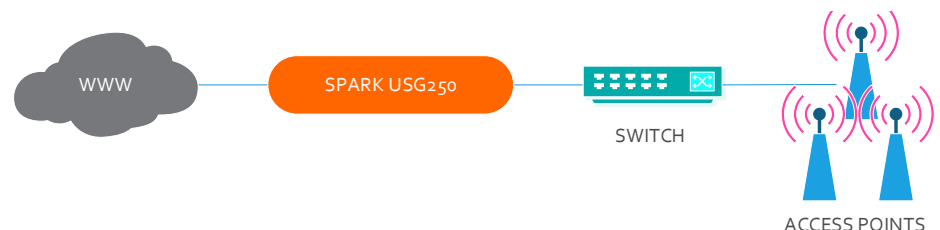
Network Integration

The USG250 is extremely easy to deploy with a simple "In-Line" topology. The USG250 sits between an internet router and the access point network and manages sessions for users.

IP Addressing

The USG250 may operate in NAT mode or be granted a public IP address when internet facing. Firewalling prevents unauthorised access. On the client side the USG250 is a fully featured DHCP server with full configuration of subnets and lease parameters. The USG250 offers VLAN capability whereby multiple SSID's from the access point network can be served different IP addresses and be routed to a unique User Experience Portal for each SSID.

Deployment – HotSpot



Firewall

A full stateful firewall is available on the USG250. As shipped it comes with all the rules required for support of the WiFi SPARK managed service. Using iptables, complex and powerful firewall rule sets may be configured on the USG250.

Load Balancing

For those venues wishing to support more than one WAN port, the USG250 may be configured to support load balancing across the gateway's dual WAN ports.

Multiple Interface

The USG250 is able to deploy multiple VLAN interfaces, where an SSID may be mapped to a unique User Experience. The USG250 supports up to 16 VLANs.

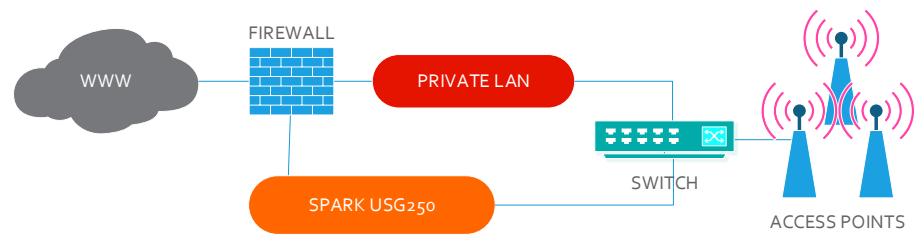
Data Collection

The USG250 supports the collection of user data via two methods. Initially this is a feature used in conjunction with the WiFi SPARK Managed Service, but secondly the USG250 can offer detailed usage statistics (ports, protocols, MAC and IP, headers and http requests) via the SPARK data collection module.

Content Filtering

Filtering of content is easily achieved in conjunction with https proxies or DNS based filtering. It is even possible to block ranges of IP addresses and websites directly in the USG250 using the block list module.

Deployment – Enterprise Network



Typical Usage Cases

- Enterprise
- Retail
- Hospitality
- Education
- Automotive
- Marine
- Accommodation

WiFi SPARK Managed Service

As an industry leader in managed WiFi services, WiFi SPARK offers the experience gained from deploying mobility solutions in many large Enterprises around the world. Leverage this expertise through WiFi SPARK's Managed Service, which provides the comprehensive support program you need to deploy and maintain your USG250 at peak performance.

USG250 Specifications

Max Users Supported	250
IP Address Range	Configurable to 4096 addresses
Throughput	>75Mb/s
LAN Port	Single 100Mb/s
WAN Ports	Dual 100Mb/s
CPU	250 MHz AMD Geode LX CPU + 128KB L2 - integrated crypto accelerator
Memory	256MByte DDR3 SDRAM
Storage	4GByte Compact Flash
RS232	19,250bps N,8,1
User Environment	-5 to +50 degrees Celsius
Power Requirements	18Volt 4W at Linux idle, peak 6W Center pin =positive.
Regulatory	EN 61000-6-3 (2505) EN 61000-6-2
Physical Characteristics	6" x 6" x 1"
Recommended Managed Service	WiFi SPARK Managed Service

The information in this specification sheet reflects the current technical specifications at the time of print. We reserve the right to change the technical or physical specifications without prior notice.

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