

Inventum S1

Multi-function Network Appliance



Inventum's S1 is a software defined, multi-function network appliance. Starting with *bare metal* hardware and a base operating system, customers can make the S1 perform multiple networking tasks by installing different applications.

Applications are provided by Inventum and can be electronically activated at any time. Apps include service routing, next generation firewall, bandwidth manager, content filter, WAN link load balancer, user database and more.

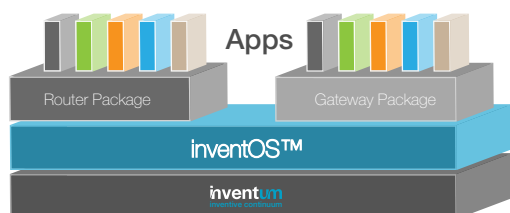
A major advance over existing routers & security appliances that lock customers into a *point solution*, Inventum's software defined S1 provides a re-usable platform that evolves with changing network needs.

Blazing Fast Hardware

Inventum leverages the latest processors and commodity hardware to deliver robust, cost-effective appliances.

The software defined networking design, allows Inventum appliances to separate data & control-plane functions. Benefits include responsive management interfaces even under peak traffic loads & predictable network throughput.

inventOS™



The bed-rock of all appliances, inventOS™ provides core services including DHCP, DNS, NAT, routing and essential

management tools such as a CLI, SNMP and browser based administration. Customers extend inventOS™ by installing *software packages*, which consist of multiple apps.

Packages & Apps

Service Router Package

Converts the S1 into a service router or broadband-RAS, capable of aggregating user traffic (IP/PPPoE) and enforcing session policies in real-time. Perfect for authentication, policy control and service accounting in broadband networks.

Apps for ISP & WISP

- Service Router
- NAS
- Subscriber Policy Enforcement
- Subscriber Traffic Metering
- Per Sub Firewall & Security
- Subscriber Content Filtering

Apps for Broadband

- Mini PCEF
- L2-L7 Policies
- Real-time Session Control
- Session Accounting

Gateway Package

Enables an all-in-one gateway that combines a router, firewall, content filter, traffic shaper, user authentication database and more. Perfect replacement for your router, proxy and UTM.

Apps for Businesses

- Advanced Router
- Firewall & Security
- User Bandwidth & Quota Policy
- VPN
- Visitor & BYOD Control
- WAN link load balancer
- Per User Content Filtering

Apps for ISP & WISP

- AAA
- Subscriber Management
- Prepay & Postpaid Billing
- Invoice Subscribers
- Voucher/PIN System
- Login & Self-care Portal
- Electronic Payment
- Reseller Management

Easy to Deploy & Manage

Appliances are shipped with inventOS™ pre-installed and ready for action. All packages & apps are activated using license keys. Management is via a web interface or secure shell. Virtually all functions are software controlled. For example, software assignable Ethernet ports allow administrators to choose any combination of LAN/WAN links.

Performance

The S1 can deliver line-rate gigabit throughput in pure forwarding mode. Depending on the software packages & apps enabled, the capacity may vary. For most purposes, the S1 can cater to networks having total user base of 50 to 500 users. Peak user concurrency may vary depending on type of network & applications being used.

Specifications

Supported inventOS™ Packages

| | |
|------------------|-----|
| Service Router | Yes |
| Internet Gateway | Yes |

Interfaces

| | |
|---------|-------------------------|
| Total | 4 x GE (Electrical) |
| WAN | 1 Minimum + Soft Assign |
| LAN | 1 Minimum + Soft Assign |
| USB | 2 x USB |
| Console | 1 x RJ-45 Serial |

Performance†

| | |
|------------------------------|---------------------|
| MAC Table | 4096 |
| Peak IP Fwd Rate | 500 Mbps (rfc-2544) |
| Router Package | |
| Concurrent Users Recommended | 50-250 |
| Max Sessions (TCP) | 700,000 |
| Gateway Package | |
| Concurrent Users Recommended | 50-250 |
| Max Sessions (TCP) | 700,000 |

Storage & Accessories

| | |
|---------|-----------------------|
| Storage | Minimum 32GB Internal |
| Memory | 1GB |

Power

| | |
|------------|----------------------------|
| DC Adapter | 1 x 60W 5A; AC 100-240V |
|------------|----------------------------|

Dimensions & Environment

| | |
|----------------|--|
| W x H x D | 215 x 44 x 190 mm 8.5 x 1.73 x 7.5 inches |
| Weight | 1.20 Kgs 2.65 Lbs |
| Operating Temp | 0 to 40 °C 32 to 104 °F |
| Humidity | 90% non condensing |

Ordering

Appliances are shipped as bare metal with no software enabled. Customers must purchase appropriate inventOS™ & Apps from Inventum to enable the functions of the appliance. In addition, user licenses, interfaces, cloud subscriptions may also be required to enable certain Apps.

Please note that it is mandatory to purchase the base inventOS™ along with the appliance. All software licenses are enabled using electronic means & require the appliance to be connected to the Internet via a public IP address.

Order Codes

| | |
|-----------------------------------|---|
| Appliance | S1-31159 |
| Router Package* | SW-SRBAS-311F7 Inclusions :router, firewall, authentication, L2-L3 flow classification, session metering, RADIUS client, portal redirection, destination IP based services, session QoS, session CIR/BIR, session quota, session FUP, session IP filtering, session routing (VRT), policy routing, walled garden, lawful logging, IP tunnelling (GRE), multi-WAN, IGMP, PPPoE, DHCP, DNS, NAT, SNAT & multiple walled gardens. |
| Apps, Interfaces & Cloud Services | CF Cloud Service :CS-CFS-311F7 |
| Gateway Package* | SW-SGBAS-311F7 Inclusions :router, firewall, authentication (portal,RADIUS, Windows ADS), policy manager (user, time-of-day, day-of-week, QoS, quotas), L2-L3 flow classification, session metering, portal redirection, destination IP based services, session QoS, session CIR/BIR, session quota, session FUP, session IP filtering, policy routing, walled garden, lawful logging, IGMP, DHCP, DNS, NAT, SNAT & multiple walled gardens. ISP Specific Features: self-care portal, prepay & postpaid billing, account ledger, service plans, OTP/PIN/Voucher System & AAA. |
| Apps, Interfaces & Cloud Services | WAN Load Balancer :GA-LBS-311F7 Postpaid Invoice :GA-INL-311F7 PMS (IDS) :GA-A1S-311F7 CF Cloud Service :GC-CFS-311F7 SMS Cloud (India) :GC-INSMS-311F7 |

Warranty†

| | |
|-----------|--|
| Appliance | 1 year parts & labour included (Return to factory basis) |
| Software | inventOS™ & Apps EULA dependant |

† Performance may vary based on applications loaded, network conditions & deployment specifics. Figures provided are for rough estimation only.

† Warranty terms shall be superseded by those shipped with product(s)
* Specifications/inclusions are indicative; Subject to change without notice.