

Inventum L1

Multi-function Network Appliances



Inventum's L1 is a software defined, multi-function network appliance. Starting with *bare metal* hardware and a base operating system, customers can make the L1 perform multiple networking tasks by installing different applications.

Applications (or apps) 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.

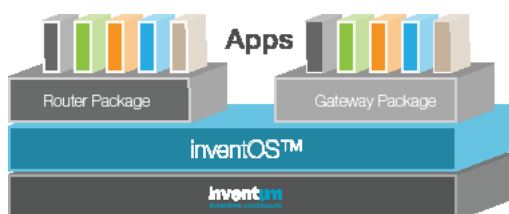
A major advance over existing routers & security appliances that lock customers into a *point solution*, Inventum's software defined L1 provides a re-usable platform that evolves with changing network needs.

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 L1 into a 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

Internet 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 L1 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 L1 is ideal for networks catering up to 30,000 users.

Specifications

Supported inventOS™ Packages

Service Router	Yes
Internet Gateway	Yes

Interfaces

Total	Up to 24 ports via 3 slots
WAN	1 Minimum + Soft Assign
LAN	1 Minimum + Soft Assign
USB	1 x USB
Console	1 x RJ-45 Serial

Performance†

	L1
MAC Table	64,000
Peak IP Fwd Rate	5 Gbps
Router Package	
Concurrent Users	30,000
Max Sessions (TCP)	35,00,000
Gateway Package	
Concurrent Users	30,000
Max Sessions (TCP)	35,00,000

Storage & Accessories

Storage	32GB Internal
Memory	4GB

Power

Power Supply Unit	ATX 500 W (each) AC 90-260V
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Dimensions & Environment

W x H x D	442 x 88 x 660 mm 17.4 x 3.46 x 25.99 inches
Weight	22 Kgs 48.5 Lbs
Operating Temp	0 to 40 °C 32 to 104 °F
Humidity	5-95% 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	L1-311F7
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.