

Allot Service Gateway 9100E

Empowering Rapid Deployment of Service Innovation



Allot Service Gateway 9100E combines DPI-based visibility, policy control, and security to keep your network optimized, safe, and efficient. Its compact footprint and scalable design enable rapid rollout of new services across fixed, mobile, and converged networks, while empowering data-driven decisions with real-time analytics and reducing attack surface with bot and DDoS mitigation.

Benefits

- Assures and protects network service and application delivery
- Empowers data-driven decisions with real-time analytics for infrastructure planning
- Maintains network hygiene by controlling recreational traffic and preventing abuse
- Delivers low to mid-level capacity for demanding environments
- Port flexibility -See supported specs in the table on page three
- Easy installation and pay-as-you-grow scalability
- Identifies and manages apps/devices that create potential security risks
- Mitigates DDoS and botnet threats for higher levels of protection

Single Point of Service Integration

Allot Service Gateway 9100E powers Allot's growing portfolio of value-added services, including:

- Allot Secure (Security VAS for consumers and small businesses)
- Allot Smart NetProtect (DDoS protection and anti-botnet)

The platform also supports real-time traffic steering to third-party applications or virtualized services with seamless service chaining. As a single point of integration for these services, Allot helps you minimize interoperability and service integration issues, facilitating a fast, efficient service rollout.

Efficient Performance

Allot Service Gateway 9100E packs rich functionality in efficient, small-footprint appliances. High-density 1/10/25 Gigabit** Ethernet connectivity and scalable throughput help you keep pace with the demand for high-quality network-based services in a cost-efficient manner.

Future-Proof Scalability

Start small and expand seamlessly with pay-as-you-grow deployment, reducing initial capital outlay and enabling operators to respond quickly to market changes.

- Capacity: supports up to 1 million active subscribers (concurrently attached and active), and 12 million concurrent IP flows
- Throughput: up to 50 Gbps in a single platform
- Central Management and configuration by Allot NetXplorer Management system, including full integration with Allot Subscriber Management Platform (SMP)

Encrypted Traffic Classification

Allot's superior traffic classification proactively learns and adapts to the changing tactics of traffic encryption that are widely used by Internet services and data privacy applications. From heuristic analysis of IP flow behavior to peer learning and predictive DPI, Allot's synergy of inspection methods delivers highly granular, accurate recognition of encrypted traffic even at maximum speeds and peak loads.

Accurate Traffic Visibility & Policy Control

Allot's AI-assisted DART (Dynamic Application Recognition Technology) engine blends deep network intelligence with the built-in Allot TrafficCognition AI engine to provide visibility down to application, user, device, QoE and traffic paths even with encrypted traffic and ECH (Encrypted client hello). A rich, continuously-updated signature library identifies hundreds of apps/protocols and supports user-defined signatures. The Policy Editor then enforces real-time QoS, steering, metering and charging with fine-grained control.

Intelligent Policy and Charging Enforcement

Compliance with 3GPP standards enables Allot SG-9100E to provide intelligent traffic detection functions, policy, and charging enforcement functions in 3G/4G/5G mobile data networks. This allows operators to leverage superior traffic identification and classification to enrich the policy decisions of PCRF (PCF in 5G) elements and to enhance the charging capabilities of online and offline charging systems (OCS, OFCS).

Collecting Network Data Records

From their vantage point in your network, Allot Service Gateway platforms collect and export a rich variety of high-resolution usage data, including real-time transactions per user, per application, per device, per video session, per VoIP and Instant Messaging session, per Web session, and more. Network data records may be exported in standard formats to business intelligence systems, such as Allot ClearSee Network Analytics, and other operator systems for further manipulation and analysis. The frequency and triggers for data record export are configurable parameters, giving operators ready access to critical usage data. Network data records are configurable and can be easily customized by Allot Data Science Services for any destination or use-case requirements.

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Capacity (Throughput and performance metrics depend on enabled features, policy configuration, traffic mix, and other deployment characteristics.)	
Throughput per Platform	50Gbps*
Number of Connections / Flows	12,000,000/24,000,000
Number of registered Users / Subscribers	1,000,000
Number of Active Lines / Pipes / Virtual Channels	10,000/1,000,000/2,000,000
Number of static Lines / Pipes / Virtual Channels	512/5,000/15,000
Standards	
Ethernet Interfaces	16 ports of 1/10/25GE 1GBASE-T,1GBASE-SX/LX,10GBASE-SR/LR, 25GBASE-SR/LR** (SFP28)
Management	2 x 1/10 Gigabit Ethernet
Networking Standards	
Tunnel and Encapsulation Support	Including L2TP v1/2, MPLS, PPPoE, GRE, GTP, 6rd, Teredo, SNAP, DS-Lite/MAP-E and others
IP Version	IPv4, IPv6
Access Technology Support	2G, 3G, 4G/LTE, 5G, CDMA, DOCSIS, WiMAX, DSL, FTTx, PON
Product Options	
Network Analytics	Real-time/Long-Term Monitoring and Reporting
High Availability	Active redundancy (1:1, 1+1), Bypass: <ul style="list-style-type: none"> • 8 RJ45-RJ45 1G copper ports (4 links) • 8 LC-LC MM/SM fiber-optic ports (4 links) • 16 LC-LC MM/SM fiber-optic ports (8 links) • 24 LC-6 MTP MM/SM fiber-optic ports (12 links)
Asymmetric Traffic Control	Efficient clustering and maintaining Layer-7 visibility/control with asymmetric flows.
Physical Characteristics	
Form Factor	2U 19" rack mount
Size	8.68 x 48.20 x 80.23 cm (3.42 x 18.98 x 31.59 in), with Bezel
Weight	Max 25.5 kg (56.2 lbs)
Power (PSU input/output)	AC - 1100W Titanium 100-240VAC, Hot-Plug MHS, dual redundant (1+1) power supply DC - 1500W Titanium -48V DC, Hot-Plug MHS, dual redundant (1+1) power supply
Operating Temperature/Environment	10°C to 35°C (50°F to 95°F) Relative humidity (%RH) 8% to 90%

* Actual throughput and performance metrics depend on enabled features, policy configuration, traffic mix, and other deployment characteristics.

** 25GBASE support is planned for 2027