Q-Balancer®

UNIFIED ACCESS GATEWAY

Whether it is a small enterprise without an IT professional team, a fast-growing medium-sized enterprise, or a large enterprise with many branch offices, the abilities to identify, manage and control key applications to improve productivity will be a necessary advantage for successful enterprises in the future.

Q-Balancer Unified Access Gateway (UAG) is a solution of applications and traffic control. The UAG has powerful network control and analysis capabilities, allowing enterprises to meet the needs of key applications with limited bandwidth resources, ensuring and optimizing the service quality and performance of the enterprise network. The solution has network application layer identification and control capabilities. Network managers can formulate management strategies based on business requirements to effectively guarantee the bandwidth requirements and delivery of key applications. With the integration of centralized management, the IT team can quickly and easily manage all connected devices through a single management screen, simplifying the enterprise network structure and reducing the work of network management.

The function settings of Q-Balancer UAG all adopt a user-friendly graphical interface, which is simple, intuitive and easy to use. Q-Balancer UAG enables enterprises to save IT resources and quickly and easily set priorities for business-critical application.

Granular Traffic Control

Q-Balancer UAG helps enterprises control bandwidth resource usage finely, the built-in application database can identify thousands of web applications and protocols, applications share bandwidth resources, and ensure the priority of bandwidth usage and transmission delivery of key applications. The applications database is provided from the Q-Balancer cloud, and the device can be automatically updated. User-defined applications are also supported to ensure that the solution can accurately control network traffic based on actual needs.

Powerful Management

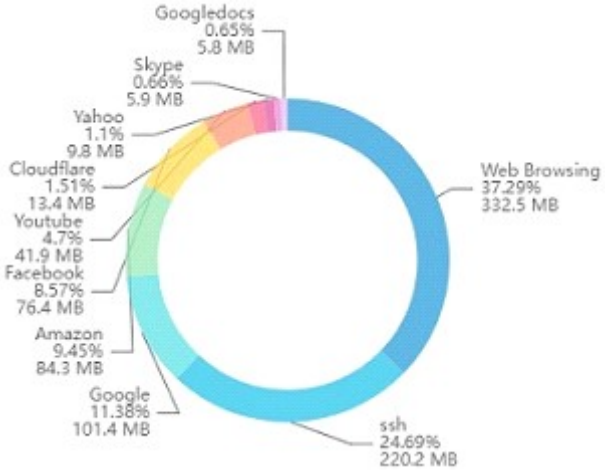
Q-Balancer UAG is incorporated with a built-in authentication mechanism, and the device effectively integrates traffic management policies, authentication mechanisms, and applications to meet business goals and user expectations. Q-Balancer UAG helps enterprises to control bandwidth resource usage finely. Administrators can virtually divide network bandwidth resources to reduce bandwidth competition among users or applications. Service priority classifies all network traffic for application classification and prioritization of bandwidth usage. Traffic management policies can be flexible in any combination, including MAC, IP address, user ID, port, application, priority, bandwidth allocation, traffic shaping, and blocking. Traffic management policies are automatically triggered as traffic conditions change.

Highlights

- High-quality network experience, improve business efficiency and employee productivity.
- Ensure priority of bandwidth usage for critical applications and protect corporate reputation.
- The intuitive and easy-to-use operation interface saves network management human resources and reduces maintenance costs.
- The ability to quickly identify problems such as network and host anomalies can be used by the network management team for immediate troubleshooting, reducing business losses caused by network failures.
- Intelligence information such as application and network resource usage enable the network management team to solve problems more quickly

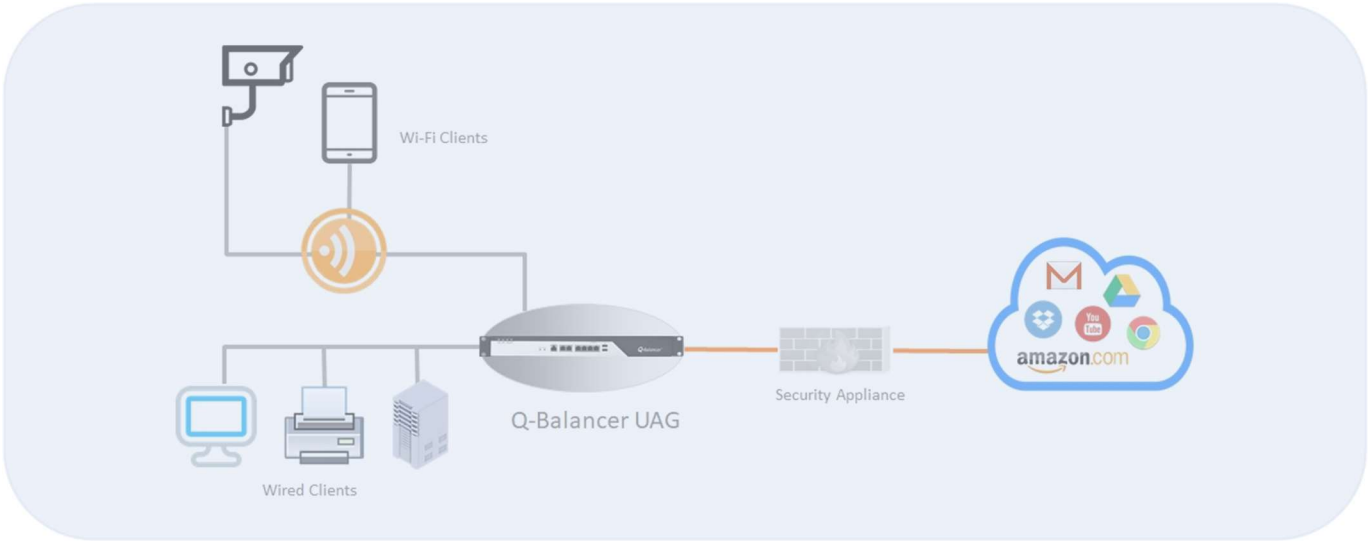
Q-Balancer®

Insight into Network



Q-Balancer UAG's reports and analytics provide decision makers with application and network bandwidth usage. Provide real-time monitoring, usage metrics, and online behavior information, allowing information teams to control traffic usage information such as applications, users, and hosts, analyze their impact on network performance, and quickly solve problems. The information provided by the device is interrelated and can be further tracked. Traffic analysis charts can be generated in PDF, graphic, and CSV formats for administrators to download and share.

The built-in log function can be used for statistics and analysis of huge amounts of data, recording network traffic in detail, and network behavior can be completely inspected and audited. Friendly and easy-to-use web-based query and graph analysis, support graph file export of query results. Through the settings, the management traffic analysis report can be provided on a regular basis. The report includes multiple classification and analysis for the information team to regularly review and evaluate.



SME Network with Q-Balancer UAG

Q-Balancer®

SOFTWARE SPECIFICATIONS

Traffic Control

- Policy-Based QoS
  MAC, IP, User Identity, Service Port, Geo-Location, URL (Custom, Inbuilt), Applications, Priority, Minimum & Maximum, Individual/ Shared, Schedule, Real-Time Usage Monitoring
- Service Priority
  Round-Robin by Connection, Priority, & Failover
- Actionable Alarms
  Block access or limit bandwidth

Networking

- NAT
- IPSec NAT Traversal
- Server Mapping
- Static Route
- RIP, OSPF, BGP
- Multiple DHCP Server & Relay
- DNS Server & Relay
- LACP NIC Bonding
- IEEE 802.1q VLAN
- WAN IP Address Assignment
  Static, PPPoE, DHCP, DDNS
- Inbuilt Wireless WAN & LAN Support
- Multiple Public IP Pass-Through
- ARP Proxy
- Bridge Mode
- Multiple Bridges in a LAN Bypass Pair
- IPv4/ IPv6 Dual Stack
- SIP & H.323 NAT Traversal
- Bandwidth Reduction
- L4 Server High Availability & Load Balancing
- Global Server Failover & Load Balancing
- Domain Routing
- Application-Aware Routing

Captive Portal

- Login Page Templates and CMS
- Bandwidth Control
- Time/ Data/ Session/ Device Control
- Whitelist by URL/ Domain/ IP/ MAC
- Local Authentication (RADIUS)
- LDAP, AD, RADIUS proxy, POS, CRM
- PMS/API/ payment gateway integration
- Landing page and In-session ads

Flexible Licensing

- Bandwidth Throughput

Status

- Links (Link Status, Download/ Upload Usage,
  Latency, Packet Loss, and Sessions)
- Current Flow (Path, IP, Port, Protocol, and
  Applications, Suspicious Flow)
- Volume and Sessions for Individual Policy Rule
- Individual QoS Rule
- LAN Hosts
- Admin Events

Logging & Monitoring

- Syslog
- On-Appliance Viewing
  Drilldown
  Multi-Format - Tabular, Graphical
  Exportable Formats - PDF, Excel
  Log Viewer - Sessions, Top 10 Services, Top 10 Sessions, Distribution by Interface and Application, Dropped by Policy Routing, DNS for Inbound & Outbound, Breakdown by WAN/ LAN/ Dynamic Path Selection, Blocked Hackers' IP

Reporting

- Email Notification of Reports
  Automated Report Scheduling
- On-Appliance Reporting
  Drilldown
  Multi-Format- Tabular, Graphical
  Exportable Formats- PDF, Excel
  QReport- Sessions, Top 10 Services, Top 10 Sessions, Distribution by Interface and Application, Dropped by Policy Routing, DNS for Inbound & Outbound, Breakdown by WAN/ LAN/ Dynamic Path Selection, Blocked Hackers' IP

Device Management

- Web-based UI (HTTP & HTTPs)
- Command Line (Serial Console & SSH)
- Multiple Admin Levels
- Handheld Devices Compatible
- Firmware Upgrades via Web UI
- Automated Configuration Backup
- Automated Firmware Upgrades
- System Auto Recovery
- NTP Server Support
- SNMP
- Email Alert
- Events Notification Center
- Built-in Diagnostic Tools
- VRRP High Availability
  Configuration Synchronization, Firmware Version
- Centralized Management System
  Device Provisioning, Device Management, Device Monitoring & Reporting

Q-Balancer®

MODELS	UAG-400	UAG-1000	UAG-3000
Designed for	Small and Medium sized Enterprises	Medium and Large sized Enterprise	Enterprise / Data Center / Campus
Recommended Users [1]	100 ~ 500	300 ~ 2000	1500 ~ 20000+
SYSTEM			
Throughput (bps)	400 ~ 800 M	1 ~ 2 G	3 ~ 15 G
Max. Concurrent sessions	800K	2M	8M
Connections per Second	5K	50K	120K
Number of Traffic Control Policies	1,024	5,000	20,000
HARDWARE			
Network Interfaces (GbE)	6	8 ~ 16 [2]	8 ~ 24 [2]
Hardware LAN Bypass (Pairs)	1	2	2 [2]
User-defined Port	•	•	•
Inbuilt Report [3]	500GB	1TB	2TB
Operation Modes	Inline / NAT / SPAN		
Device Management	Web UI/ Console/ SSH, RBAC		
HA	Active / Standby		
DIMENSIONS & WEIGHT			
Form Factor	1U	1U	1U
W x D x H (mm)	430 × 280 × 44	428 × 321 × 44	430 × 450 × 44
Net Weight (Kg)	3.5	4.5	8.5
POWER & ENVIRONMENT			
Power Supply	Single	Dual [4]	Dual [4]
Max. Consumption (W)	60	65	300
Operation Temperature (°C)	0 ~ +40	0 ~ +40	0 ~ +40
Storage Temperature (°C)	-20 ~ +70	-20 ~ +70	-20 ~ +70
Humidity (non-condensing)	10% ~ 90% RH	10% ~ 90% RH	10% ~ 90% RH
Certifications	FCC, CE	FCC, CE	FCC, CE
Warranty	1 Year	1 Year	1 Year

Remarks：[1] Recommendation for sizing purposes only. No software restrictions applied. [2] LAN modules with 10GbE/ 25GbE/ 40GbE/ LAN Bypass are optionally supported. [3] Inbuilt report is an option. [4] Redundant power supply unit is an option. [5] All specifications are subject to change without prior notification.

ORDERING INFORMATION

PRODUCT	SKU	DESCRIPTION
Q-Balancer UAG 400 w/ 400Mbps	UAG-400-1	UAG-400-1 supports 400Mbps throughput.
Q-Balancer UAG 400 w/ 800Mbps	UAG-400-2	UAG-400-2 supports 800Mbps throughput.
Q-Balancer UAG 1000 w/ 1Gbp	UAG-1000-1	UAG-1000-1 supports 1Gbps throughput.
Q-Balancer UAG 1000 w/ 2Gbp	UAG-1000-2	UAG-1000-2 supports 2Gbps throughput.
Q-Balancer UAG 3000 w/ 3Gbp	UAG-3000-1	UAG-3000-1 supports 3Gbps throughput.
Q-Balancer UAG 3000 w/ 6Gbp	UAG-3000-2	UAG-3000-2 supports 6Gbps throughput.
Q-Balancer UAG 3000 w/ 9Gbp	UAG-3000-3	UAG-3000-3 supports 9Gbps throughput.
Q-Balancer UAG 3000 w/ 12Gbp	UAG-3000-4	UAG-3000-4 supports 12Gbps throughput.
Q-Balancer UAG 3000 w/ 15Gbp	UAG-3000-5	UAG-3000-5 supports 15Gbps throughput.

Q-BALANCER Company is a software company that builds specialized and high-performance network appliances for enterprises. Our solutions accelerate digital economy, reduce connectivity costs, augment traditional WAN network, and optimize delivery for next-generation applications. Since inception our solutions have been successfully deployed across thousands of customer networks in over 20 countries through cooperation with the channel partners. 3F10, No. 5, Sec. 5, Xinyi Road, Taipei, Taiwan 11011 | Tel+886-2-87808518 | sales@creek.com.tw | www.creek.com.tw.