NEXT-GENERATION MULTI-WAN GATEWAY

MPLS Augmentation | WAN Load Balancing | Link Bonding | VPN Bonding | Inbound Load Balancing | WAN Optimization
Application-Aware Routing | Application QoS | Centralized Management | Logging & Reporting | Network Security

Q-Balancer appliance is a next generation multi-WAN gateway solution that guarantees continuous connectivity for enterprise and cloud-based applications by load balancing and optimizing both outbound and inbound traffic across multiple WAN links. Q-Balancer appliance is incorporated with a variety of advanced network features, enabling enterprises to take full control of their WAN networks.

Unlike the traditional NAT-based link load balancing solutions, the WAN load balancing capability of Q-Balancer works in conjunction with application-awareness, which ensures unbreakable connectivity and increases service level and availability for corporate and cloud-based applications. Q-Balancer appliance is able to route or distribute traffic across a variety of Internet connections through the best-performing or least-loaded links based on business policy; it helps enterprises effectively harness multi-cloud networks and transforms inexpensive broadband connections into an enterprise-grade WAN.

QB-500 is designed to bring high network reliability and performance to medium and large-sized enterprise and regional data centers. This 1U rack-mountable appliance supports up to 52 WAN links and up to 5Gbps throughput. QB-500 protects business from any potential network failure and disruption.

WAN RELIABILITY AND PERFORMANCE

Provides enterprises with unbreakable connectivity and increases service level and availability through routing or distributing traffic across a variety of Internet connections via the best-performing or least-loaded links based on business policy.

COST SAVING

Leverages inexpensive broadband connections and transforms them into an enterprise-grade WAN. The appliance offloads non-critical and general traffic from expensive MPLS circuits to save its expensive bandwidth for business-critical applications. The solution of centralized management system helps enterprises reduce time, cost, and probable human-errors associated with deployment and daily management for edge devices.
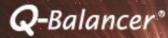
BETTER APPLICATION DELIVERY

Classifies business applications and selectively directs traffic down the optimal path. Application delivery works in conjunction with path monitoring and policy-based load balancing. The appliance tracks characteristics of all paths and uses the collected information to compute optimal paths for data transmission.

NETWORK SIMPLIFICATION

Reduces the reliance on expensive certified specialists as its configuration is simple and fast. The appliance helps enterprises mitigate the reliance on other network devices like routers, DHCP server, firewall, etc. With the consolidated features and user-friendly user interface, the complexity of network management can be lowered to certain level for branch networks.

HIGHLIGHTS

> Improving WAN reliability and performance

> Optimal application delivery

> Increasing VPN reliability and performance

> Augmenting MPLS reliability and performance

> Flexibly increasing WAN scalability

> Ensuring accessibility to internal server for external requests

> Lowering WAN OpEx and CapEx

> Mitigating potential security threats

> Reliable Internet connectivity for branch networks anywhere

> Enhancing dynamic routing capability

> Minimizing effort for branch devices installation

> Simplifying branch network infrastructure

> Increasing backhaul capacity

Q-Balancer®

SPECIFICATIONS

QB-500

Designed for	Medium to Large
Recommended Users [1]	300 - 2000

SYSTEM

Throughput (bps)	500- 5000M
WAN Links	7- 52
Concurrent Connections	2M
Connections per Second	150K

HARDWARE

CPU	Quad Core
Network Interfaces (GbE) [2]	8- 12
Hardware LAN Bypass (Pairs) [3]	1/2
User-defined Port	●
Inbuilt 4G LTE/ Wi-Fi Module [4]	●
USB 4G Modems [5]	1
QBReport [6]	●

DIMENSION

Form Factor	1U
W x D x H (mm)	428 x 321 x 44
Net Weight (Kg)	4.5

ENVIRONMENT

Power Supply [7]	Single / Dual
Max. Power Consumption (Watt)	220
Operating Temperature (°C)	0 ~ +45
Storage Temperature (°C)	-20 ~ +70
Humidity	10% ~ 90% RH, non-condensing
Certifications	FCC, CE, RoHS
Warranty	1-Year Limited Warranty

Remarks: [1] Recommendation for sizing purposes only. No software restrictions applied. [2] GbE/ 10GbE LAN Module can be optionally added. [3] LAN Bypass pairs can be optionally added. [4] 4G LTE or Wi-Fi Module can be optionally added. [5] USB 4G Modem only works as failover line. [6] QBReport is an option. [7] Redundant Power Supply is an option. [8] All specifications are subject to change without prior notice.

ORDERING INFORMATION

PRODUCT	SKU	DESCRIPTION
QB-500 w/ 500Mbps	QB-500-1	1U rack-mountable appliance with 8 x GbE ports, supporting 7 WAN links, 50 bonding tunnels, and 500Mbps throughput.
QB-500 w/ 1000Mbps	QB-500-2	1U rack-mountable appliance with 8 x GbE ports, supporting 52 WAN links, 850 bonding tunnels, and 1000 Mbps throughput.
QB-500 w/ 1500Mbps	QB-500-3	1U rack-mountable appliance with 8 x GbE ports, supporting 52 WAN links, 850 bonding tunnels, and 1500 Mbps throughput.
QB-500 w/ 2000Mbps	QB-500-4	1U rack-mountable appliance with 8 x GbE ports, supporting 52 WAN links, 850 bonding tunnels, and 2000 Mbps throughput.
QB-500 w/ 2500Mbps	QB-500-5	1U rack-mountable appliance with 8 x GbE ports, supporting 52 WAN links, 850 bonding tunnels, and 2500 Mbps throughput.
QB-500 w/ 3000Mbps	QB-500-6	1U rack-mountable appliance with 8 x GbE ports, supporting 52 WAN links, 850 bonding tunnels, and 3000 Mbps throughput.
QB-500 w/ 4000Mbps	QB-500-1-4G	1U rack-mountable appliance with 8 x GbE ports, supporting 7 WAN links, 50 bonding tunnels, and 4000 Mbps throughput.
QB-500 w/ 5000Mbps	QB-500-1-5G	1U rack-mountable appliance with 8 x GbE ports, supporting 7 WAN links, 50 bonding tunnels, and 5000 Mbps throughput.
LAN modules with 4 GbE LAN ports	4_1G_GBE	LAN modules with 4 GbE RJ-45 LAN ports
LAN modules with 4 fiber LAN ports	4_1G_SFP	LAN modules with 4 fiber LAN ports
LAN module with dual 10 GbE fiber	2_10G_SFP	LAN modules with dual 10 GbE SFP+ LAN ports
LAN module with quad 10 GbE fiber	4_10G_SFP	LAN modules with quad 10 GbE SFP+ LAN ports