

MULTI-CELL LOAD BALANCER FOR ENTERPRISES

**MPLS Augmentation | VPN Bonding | Broadband Bonding | Auto-Provision Overlay | Application-Aware Routing
Embedded 4G LTE | Overlay Routing | Multi-Path QoS | Branch Network Simplification | Network Security**

As the need of branch expansion grows, business might find that there might be limited Internet access at some places where business opportunities are discovered. Some locations might have MPLS services available, while some might have no landline at all. Q-Balancer Mesh is the appliance designed to meet these challenges. Its hardware comes with GbE ports and industrial 4G LTE modules, and thus can be directly connected with wired and wireless connections to provide Internet access for branch networks.

CONNECTIVITY AUGMENTATION

Augment Internet connectivity for enterprise networks by connecting types of WAN transports while preserving quality and bandwidth.

COST SAVING

Leverage low-cost broadband connections and migrate non-critical or internet-bound traffic from expensive MPLS links to broadband connections.

APPLICATION DELIVERY

Better application delivery can be provided with its intelligent mechanism, through which the appliance can be configured to dynamically find out the best path for critical applications or effectively distribute traffic across available paths based on the characteristics of applications and status of all WAN links.

NETWORK SIMPLIFICATION

Reduce reliance on 3rd party hardware appliances through integrating critical network services into the appliance, and hence help enterprises simplify their branch infrastructure.

BUSINESS AGILITY

Simplify configuration to enable SMEs or branch networks to instantly enjoy solid internet access through a variety of WAN transports, including 4G LTE.

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 offices anywhere
- > Enhancing dynamic routing capability
- > Minimizing effort for branch devices installation
- > Simplifying branch network infrastructure
- > Increasing backhaul capacity

HARDWARE SPECIFICATIONS

QB-MESH



Designed for	Remote/ Branch/ Mobile
Recommended Users ¹	50 - 150

SYSTEM

Throughput (bps)	500M
WAN Links	4 - 7
Concurrent Connections	50K
Connections per Second	5K

HARDWARE

Network Interfaces (GbE)	4
Hardware LAN Bypass (Pairs)	○
User-defined Port	●
Embedded 4G LTE Modems ²	1 - 4
USB 4G Modems ³	1
Wi-Fi LAN Support ⁴	●
GPS Interface with Female Antenna Connector	●
Inbuilt Storage ⁵	●

DIMENSION

Form Factor	Desktop
W x D x H (mm)	195 × 138 × 70
Net Weight (Kg)	2

ENVIRONMENT

Power Supply	External Adapter
Max. Power Consumption (Watt)	60
Operating Temperature (°C)	0 ~ +40
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 Up to three 4G LTE modules can be added. ³ USB 4G Modem works as failover mode.

⁴ Wi-Fi LAN is an option to supported models. ⁵ Inbuilt storage is an option. ⁶ All specifications are subject to change without prior notice.

ORDERING INFORMATION

PRODUCT	SKU	DESCRIPTION
QB-MESH w/1*4G LTE	QB-Mesh-1	QB-Mesh-1 is a compact design appliance with 4 x GbE ports and 1 x 4G LTE module onboard. It supports 4 WAN links (via 3 x GbE + 1 x 4G LTE modules), 7 bonding tunnels, and 500 Mbps throughput.
QB-MESH w/2*4G LTE	QB-MESH-2	QB-MESH-2 is a compact design appliance with 4 x GbE ports and 2 x 4G LTE module onboard. It supports 5 WAN links (via 3 x GbE + 2 x 4G LTE modules), 7 bonding tunnels, and 500 Mbps throughput.
QB-MESH w/3*4G LTE	QB-MESH-3	QB-MESH-3 is a compact design appliance with 4 x GbE ports and 3 x 4G LTE module onboard. It supports 6 WAN links (via 3 x GbE + 3 x 4G LTE modules), 7 bonding tunnels, and 500 Mbps throughput.
QB-MESH w/4*4G LTE	QB-MESH-4	QB-MESH-4 is a compact design appliance with 4 x GbE ports and 4 x 4G LTE module onboard. It supports 7 WAN links (via 3 x GbE + 4 x 4G LTE modules), 7 bonding tunnels, and 500 Mbps throughput.