

# **Q-Balancer® Mesh Series**

## **Multi-WAN Wireless Router**

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## **Overview**

The link failure is particularly troublesome for remote stations and mobile offices as it increases traveling expenses for staffs, running between headquarter and remote stations to restore the system, and even makes a mobile office totally isolated. The Q-Balancer Mesh facilitates remote maintenance and assures steady connectivity by offering undisturbed data transfer over cellular Internet connections.

Furthermore, video transmission over single 3G connection might suffer from disconnection and insufficient bandwidth. Q-Balancer Mesh is able to bond up to 4 cellular 3G modems, which makes it a suitable solution for video transmission over 3G network, offering resiliency, availability and mobility.

The bonded 3G solution aggregates all 3G connections simultaneously to achieve highest link performance and smooth transmission. Broadcasters and online video professionals enjoy the benefits of bonded 3G network by using Q-Balancer Mesh to provide a reliable video uplink.

## **Quality and Resilient 3G uplink**

Q-Balancer Mesh offers undisturbed data transfer over 3G networks and facilitates remote maintenance by assuring steady connectivity. This is helpful for the remote station/office where ADSL is not available.

Moreover, it is capable of achieving highest uplink performance by efficiently distributing traffic across the links with its algorithms. This offers resilient high quality video transmission over 3G networks anytime and anywhere.

Q-Balancer Mesh incorporates multiple 3G modems built in, which makes 3G accesses easier and more stable. Each of modems comes with advanced antennas, which help extend the network coverage and turn dead zone to live zone. For Wi-Fi users, the built-in Wi-Fi module on Q-Balancer Mesh is able to work as LAN Gateway, which offers the convenience and flexibility for remote LAN.

## **Video Surveillance**

The Q-Balancer Mesh supports multiple IP-based camera and DVRs, giving you a reliable and cost-effective security guard that's on duty all day, every

day. With the Q-Balancer Mesh, it's easy to control cameras and review DVR footage from anywhere in the world, in real time, whether you're monitoring a construction site, retail location, or fleet of vehicles. And thanks to 256-bit military-grade encryption and reliability powered by up to seven mobile Internet connections, transmitted video and audio is secure and dependable enough for even the most demanding security application.

The following diagram illustrates how video stream transmit over a bonded 3G network using Q-Balancer Mesh at both ends:

### Q-Balancer Mesh Workflow



1. A video camera is connected to the Q-Balancer Mesh unit over a network cable or wireless link.
2. The video stream is transmitted to the central Q-Balancer unit via the bonded uplink of multiple 3G connections.
3. The video stream will be pushed to the surveillance viewer PC.

### Field Broadcast

Q-Balancer Mesh offers quality bonded uplink while you're delivering breaking news, live concerts, sports, or any other event that demands dependable, high-bandwidth mobile video transmission. For video transmission, Q-Balancer Mesh offers a resilient quality uplink over a cost-effective cellular network, makes itself an alternative to satellite or microwave, and realizes freedom of mobility in the field for all live broadcast media.

### Live News Gathering

Getting live news reports to viewers can be a logistical and technical challenge as news happens anywhere at anytime. Thus, flexibility, reliability, and ease-

of-use are critical in live newsgathering applications. Q-Balancer Mesh allows remote field reporters to set up quickly and transmit higher quality video and audio over 3G connections as events unfold. It is a new and cost-effective up-link system for SD or HD-quality coverage of breaking and local news.

### **Law Enforcement**

The ability to view video as events unfold helps police headquarters to better support officers on regular patrols. This also helps facilitate faster assessment and potential back-up response for criminal activities already in progress. By integrating live video over IP, the Q-Balancer Mesh enables police officers in the field to transmit live video back to police headquarters over any available IP network in real time.

### **Franchise**

Q-Balancer Mesh makes it easy to capitalize on any opportunity wherever and whenever you want to enter an emerging or rural market or just deploy a temporary retail branch office to take advantage of a special event. You can increase bandwidth anytime you want by adding more Internet connections. Q-Balancer Mesh supports real-time POS systems and video surveillance, allowing you to acquire business information at first hand. Q-Balancer Mesh delivers a cost-effective, secure, and reliable way to expand retail business.

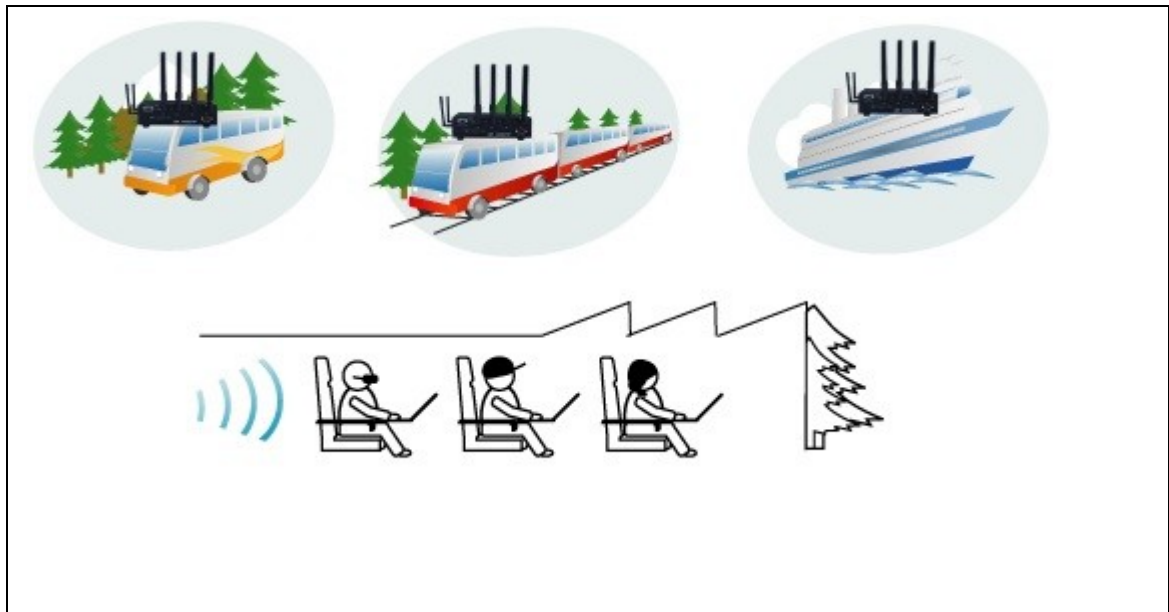
### **Marine**

The Q-Balancer Mesh automatically switches Internet connections between satellite and 3G/4G connections based on performance and availability to provide the most economical and reliable Internet access. With Q-Balancer deployed on board, passengers enjoy resilient and accelerated Internet access.



### **Public Transportation**

The Q-Balancer Mesh is able to offer staffs and passengers on public transportation an undisrupted and moving Internet access. The mobile networking system using Q-Balancer Mesh can work with applications on board such as ticket system, video surveillance, real-time GPS fleet tracking, and up-to-the-minute news, weather, and traffic conditions.



### **Landline Alternative**

Q-Balancer Mesh offers quick deployment without wired connections as it comes with onboard 3G modules, built-in wireless LAN, USB 3G dongles support. The all-in-one design makes it simple and quick to deploy your office network at trade shows, conferences, or anywhere else you do business.

### **Remote and Mobile Office**

By using Q-Balancer Mesh, maintenance of remote and mobile office will be simplified as all the works can be done in advance or remotely.



### **About Creek**



**Creek Data Communication Co., Ltd.**

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Creek is dedicated to designing and developing the highly innovative and quality products. Our network products, the Q-Balancer Range, enable SME (Small and Medium Enterprise) to build the most efficient and reliable network environments, and to achieve the most rapid ROI (return on investment).

We work with some of the top System Integrators, Distributors, and Service Providers in the world, and have deployed thousands of units in over 20 countries in strong cooperation with the channel partners. We are continuously evolving the products to provide remarkable functionality to meet customers' requirements.

For more information, please visit our web site [www.creek.com.tw](http://www.creek.com.tw) or send email to [sales@creek.com.tw](mailto:sales@creek.com.tw).