



# Quality Assurance of Used Network Hardware



A Primer to Smart Purchasing

## Quality Assurance of Refurbished Network Hardware

Network Operators, Engineers and Architects can save up to 80% off of MSRP when purchasing used networking equipment. To assure fully-functional used network hardware, Terabit Systems runs it through a well-defined process to ensure that it functions as good as new, is cosmetically acceptable, and is complete and ready for use. We never start with defective hardware, or equipment needing board-level repair. The majority of our product are items that were in use and were simply decommissioned. Before we can consider it *refurbished* and ready for sale, we put it through our proprietary QA process as described below.

### 1) Physical inspection:

Every networking router, switch and load balancer is carefully inspected to check for any physical issues that would affect functionality. We inspect connectors, heat-sinks, faceplates, buttons, latches etc. for damage. Some items are rejected outright at this stage, and removed from the product pool to eCycling.

### 2) Functional testing:

At this step networking gear is run through applicable testing. Switches are run through their POST (power-on-self-test), and any errors noted. Log files are checked for error messages, fans and power supplies are tested, and port testing is begun. Traffic is passed through all ports at wire speed by putting the device on our test network featuring state-of-the-art LANforge software up to 10GB/Sec. Whenever possible, built-in diagnostic commands are executed. Modules are run in chassis, and again, checked for normal function. Optical transceivers have traffic sent through them before being passed.



### 3) Factory defaults:

We restore settings to factory default on all used routers, switches, and load balancers. All passwords and configurations are removed, and firmware is updated whenever possible. The equipment is made ready to use out of the box, just like it would be if new from the manufacturer.



#### 4) Cosmetic refurbishment:



Networking equipment that has passed the first 3 steps is wiped clean and dusted. Some casings may be repainted if significant scratches are present. Fans, heat sinks, and components are blown off to remove dust.

#### 5) Final QC and kitting:

Gear passing the first four steps are given a final QC check, kitted out with any applicable accessories (rack mounts, power cord, console cable, PDF's etc.), and sent into our warehouse inventory - available for sale. Once ordered, networking product is pulled and professionally packed for safe transit using the best methods and materials available. We realize how rough transit can be, and take every precaution to ensure items are fully protected.



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## About Terabit Systems

Founded in 2009, Terabit Systems provides new and refurbished routers, switches and load balancers from Juniper, Brocade, Cisco, and other trusted brands. We provide high-quality, fully tested networking solutions for CLECs, ISPs, IXCs and other data center operators, with hassle-free, non-nonsense, honest consulting to help you balance performance requirements and budgets. We also buy abandoned or obsolete equipment. We are passionate about the quality of the refurbished data network hardware we sell! If you have questions or need a quote, give us a call.

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