

***The NetEqualizer Lite has been discontinued as of July, 2013 as this form factor will not support 64-bit processing or historical reporting. We will continue to offer support and hardware warranties via [NSS](#) and [NHW](#) through December, 2014. Email [sales@apconnections.net](mailto:sales@apconnections.net) for pricing.***

***The NetEqualizer Lite is our entry-level bandwidth shaping solution for businesses where cost is paramount. Designed with a small form factor, it is capable of handling up to 200 network users on Internet links of up to 20 megabits.***

*Just like all of our NetEqualizer models, the NetEqualizer Lite performs QoS through our proprietary “equalizing” technology, utilizing algorithms to achieve fairness across network users. Our NetEqualizer product family optimizes critical network bandwidth resources for any organization that purchases bandwidth in bulk and then redistributes or resells that bandwidth to disparate users with competing needs.*



## **NetEqualizer Lite Features:**

- Low-cost, available factory-direct with in-house engineering support.
- NetEqualizer Lite handles 20Mbps, (full duplex).
- Bandwidth can be limited by individual IP, Class B or Class C subnets, VLANs, Pools, or MAC address.
- QoS implemented via behavior-based bandwidth shaping. “Fairness” algorithms give priority to latency-sensitive applications, such as VoIP, web browsing, chat and e-mail over large file downloads and video that can clog your network.
- Supports up to 1,000 simultaneous bandwidth rules.
- Turn-key behavior-based control and containment of all common encrypted and unencrypted peer-to-peer (P2P) Applications, such as Gnutella, Kazaa, etc.
- P2P Locator Tool provides visibility into suspected peer-to-peer (P2P) traffic so that you can manage and contain it, while maintaining Net Neutrality.
- Protects your network from malicious activities via Connection Limits. Connection Limits can be set for an IP, subnet, or your entire network. You can protect your networks from malicious activities, such as traffic storms and worms, and wide-scale brownouts caused by Denial of Service (DoS) attacks.
- CALEA Compliant. Acts as a CALEA Probe via packet capturing & forwarding.
- Plug-n-play, low maintenance solution. Quick and easy set-up, typically one (1) hour or less. Out-of-the-box equalizing via “default” mode. Easily accessible to configure via parameters defined in the NetEqualizer web interface. Command-line interface supported.
- We do not recommend that you run trend analysis and graphs (via [ntop](#)) on the NetEqualizer Lite. For trend analysis and historical reporting, see our NetEqualizer 3000 series.
- Real-time traffic monitoring for both IPv4 & IPv6 traffic, is available via logs, active connections, and instantaneous bandwidth usage reports.
- Ability to create and enforce individual bandwidth quotas by customer IP or subnets. User Quota API toolkit provides custom configuration, monitoring/alarming, and reporting capabilities.
- Acts as a Transparent Bridge on your network. Supports Spanning Tree Protocol to dual-configure in active/passive full redundancy mode, or for failover via your Switch or NetEqualizer 3<sup>rd</sup> party switch.
- Unit price includes Year 1 of NSS and NHW.
- Hardware warranties (NHW) available to protect your hardware investment through Dec 2014.
- Reasonably-priced, yearly software upgrade and support contracts (NSS) available in through Dec 2014.

# NetEqualizer Series Specifications

NetEqualizer Model	NE3000	NE4000	NetEqualizer Lite	NE2000
<b>Capacity</b>			<b>Discontinued for new purchases in 2013.</b>	<b>Discontinued for new purchases in 2013.</b>
<b>Number of Users</b>	20,000	40,000	200	5,000
<b>Number of Connections / Flows per Minute</b>	2,000,000	3,000,000	5,000	1,000,000
<b>Maximum Number of Rules</b>	10,000	20,000	1,000	5,000
<b>Throughput (full duplex)</b>	10Mbps 20Mbps 50Mbps 100Mbps 150Mbps 350Mbps 1Gbps	1Gbps 5Gbps	20Mbps Discontinued.	Discontinued. License levels moved to the NE3000.
<b>Latency</b>	< 1 millisecond (ms)			
<b>Pools / VLANs / Subnets</b>	500	500	40	500
<b>Interfaces</b>				
<b>Network Interfaces (in/out) (internal/external)</b>	2 - copper 10/100/1000 10 Gbps copper optional Fiber optional: 1Gbps & 10Gbps SM or MM	2 - copper 10/100/1000 10 Gbps copper optional Fiber optional: 1Gbps & 10Gbps SM or MM	2 - copper 10/100/1000 Fiber optional	2 - copper 10/100/1000 Fiber optional
<b>Out of Band Management</b>	yes	yes	no	yes
<b>Console Port</b>	RS-232 (AT-compatible) with male DB-9 connectors			
<b>Features</b>				
<b>Equalizing</b>	Yes. Behavior-based shaping via "fairness" algorithms gives priority to latency-sensitive applications, such as VoIP, web browsing, & e-mail over bandwidth hogs that can clog your network.			
<b>Bandwidth Shaping</b>	By IP, subnet, MAC, VLAN, and Bandwidth Pools			
<b>Bandwidth Limiting</b>	1) Hard Limits by IP (with optional Bursting), subnet, or MAC address 2) Shared Bandwidth Pools or VLANs 3) User Bandwidth Quotas by customer IP or subnet 4) Connection Limits by customer IP or subnet			
<b>P2P and Encrypted P2P Control &amp; Containment</b>	Yes. Equally effective on both encrypted and unencrypted P2P. Implemented via Connection Limits.			
<b>Caching</b>	yes (optional NCO)	yes (optional NCO)	no	no
<b>Redundancy / Failover</b>	1) Full Redundancy: Install Secondary NetEq in active:passive mode; hot swappable via STP. 2) Failover: Install a third-party switch in STP mode (available from APconnections). 3) Failover: Use STP mode on your own switch.			
<b>Device Management</b>	Web browser interface, Telnet CLI, Console access			
<b>Interoperability</b>	SNMP MIB			
<b>Logging</b>	Yes.			
<b>Reporting: Dynamic Real-Time Reporting (RTR) &amp; Current Activity</b>	<b>Dynamic Real-Time Reporting (RTR):</b> RTR offers up-to-the second sortable and searchable IPv4 and IPv6 traffic analysis. Includes: 1) Pools, 2) Active Connections, 3) Top 10 Flows, 4) Penalized Flows. <b>Current Activity Reports:</b> Includes: 1) Instantaneous Bandwidth Usage by IP, VLAN, or Pool, 2) P2P Locator, and 3) NetEqualizer Log.		Current Activity Reports. Includes: 1) Instantaneous Bandwidth Usage by IP, VLAN, or Bandwidth Pool, 2) P2P Locator, and 3) NetEqualizer log.	
<b>Reporting: Trend Analysis &amp; Graphs</b>	Yes. <b>Dynamic Real-Time Reporting (RTR): *NEW*</b> Traffic Reports provide up to 1 day of data in Bandwidth Graphs by IP or network. Protocol Tracking charts selected protocols by IP or network. <b>ntop</b> (available through 2014) also provides historical trend analysis and graphs.		No. ntop not recommended. Yes, via ntop.	
<b>Dimensions</b>				
	<b>1U</b>	<b>1U</b>	<b>small form-factor</b>	<b>1U</b>
<b>Rack Mountable</b>	yes		no	yes
<b>Height</b>	1.7 in (4.3 cm)		1.89 in (4.8 cm)	1.7 in (4.3 cm)
<b>Width</b>	16.8 in (42.6 cm)		6.54 in (16.6 cm)	16.8 in (42.6 cm)
<b>Depth (length)</b>	14.0 in (35.6 cm)		6.18 in (15.7 cm)	14.0 in (35.6 cm)
<b>Weight</b>	11.1 lbs (5.05 kg)		2.38 lbs (1.08 kg)	11.1 lbs (5.05 kg)
<b>Power</b>				
<b>Power Rating</b>	132W	180W	unlisted	118W
<b>Operating Temperature &amp; Relative Humidity</b>	Operating Temp: 10°- 35°C (50°- 95°F) Operating RH: 8% - 90% (non-condensing)		Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing)	Operating Temp: 10°- 35°C (50°- 95°F) Operating RH: 8% - 90% (non-condensing)
<b>Heat Dissipation</b>	450.40 BTU/hr	617.58 BTU/hr	unlisted FANLESS Thermal Module. Noise : 20dB Operating Temp : 0 - 40C (32 - 104F)	402.63 BTU/hr
<b>Power Supply</b>	260W AC with PFC 100-240 VAC, 50-60Hz, 4 Amp max		65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V US Power Cord (standard)	260W AC with PFC 100-240 VAC, 50-60Hz, 4 Amp max
<b>Safety and Certifications</b>				
<b>Safety, Emission, &amp; Power Supply</b>	USA - UL listed, FCC Canada - CUL listed Germany - TUV certified Europe/CE Mark EN 60950/IEC 60950-Compliant CCC certified		UL, FCC, CE, CB, BSMI FCC: Class B - Part 15 Canadian ICES-003	USA - UL listed, FCC Canada - CUL listed Germany - TUV certified Europe/CE Mark EN 60950/IEC 60950-Compliant. CCC

## About APconnections

APconnections is an innovation-driven technology company that delivers best-in-class network traffic management solutions to give our customers faster networks, with zero maintenance, at the best prices.

We design and develop NetEqualizer bandwidth shaping appliances that solve Internet congestion issues while remaining easy-to-install, cost-effective, and low maintenance. We built our behavior-based "equalizing" technology to optimize critical network bandwidth resources.

APconnections is based in Lafayette, Colorado, USA. We released our first commercial offering in July 2003, and since then thousands of customers all over the world have put our products into service. Today, our flexible and scalable solutions can be found in Fortune 500 companies, major universities, Internet providers, small businesses, non-profits, military, and government agencies on six (6) continents.

## About the NetEqualizer Product Family

NetEqualizer appliances are behavior-based traffic shaping appliances designed to optimize your Internet connection, while giving priority to your important business and data applications. Our flexible, scalable, and affordable bandwidth shaping products can be deployed in both corporate and Internet provider networks.

NetEqualizer is available in a range of configurations from 10Mbps up to 5Gbps.