# **NET**EQUALIZER

The NetEqualizer 4000 Series is our heavy-duty bandwidth shaping solution for businesses where performance and power are paramount. Designed for large-scale deployments, it is a rack-mountable unit capable of handling up to 40,000 network users on internet links of up to five (5) gigabits.

Just like all of our NetEqualizer models, the NE4000 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 4000 Features:**

- Low-cost, available factory-direct with in-house engineering support.
- Equalizes up to 5 gigabits traffic (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 latencysensitive applications, such as VoIP, web applications, web browsing, chat and e-mail over large file downloads and video that can clog your network.
- Supports up to 20,000 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 peerto-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.

- Dynamic Real-Time Reporting (RTR) provides traffic monitoring in real-time for both IPv4 & IPv6.
   Sortable & searchable reports include active connections, top 10 flows, penalized flows, and Pools. P2P traffic locator also available.
- \*NEW\* Trend analysis and graphs included via RTR Traffic Reports. *Traffic Reports* graph bandwidth usage by IP or network for up to 1 day of data. (summer 2014) Export data for longer analysis. *Protocol Tracking Reports* chart selected protocols.
- Ability to create and enforce individual bandwidth quotas by customer IP or subnet. 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.
- NetEqualizer Caching Option (NCO) available as an add-on module. NCO caches all port 80 traffic file sizes from 2MB to 40MB, including YouTube videos. When NCO is activated, a squid proxy server and web cache daemon are loaded, along with proprietary NetEqualizer Caching configuration and integration software and a new internal solid-state drive (SSD).
- Ethernet connectivity standard. Fiber option available.
- Hardware warranties (NHW) available in Year 2, 3, & 4 to protect your hardware investment.
- Reasonably-priced, yearly software upgrade and support contracts (NSS) available in 1 year to 3 year increments.

### NetEqualizer Series Specifications

NetEqualizer Model	NE3000	NE4000	NetEqualizer Lite	NE2000
Capacity			Discontinued for new	
Number of Users	20,000	40,000	purchases in 2013. 200	purchases in 2013. 5,000
Number of Connections /	2,000,000	3,000,000	5,000	1,000,000
Flows per Minute	2,000,000	0,000,000	0,000	1,000,000
Maximum Number of Rules	10,000	20,000	1,000	5,000
Throughput	10Mbps	1Gbps	20Mbps	Discontinued.
(full duplex)	20Mbps	5Gbps	Discontinued.	License levels moved
Latency	50Mbps			to the NE3000.
	100Mbps			
	150Mbps 350Mbps			
	1Gbps			
	< 1 millisecond (ms)			
Pools / VLANs / Subnets	500	500	40	500
nterfaces				
Network Interfaces	2 - copper 10/100/1000	2 - copper 10/100/1000	2 - copper	2 - copper
(in/out) (internal/external)	10 Gbps copper optional	10 Gbps copper optional	10/100/1000	10/100/1000
	Fiber optional: 1Gbps &	Fiber optional: 1Gbps &	Fiber optional	Fiber optional
	10Gbps SM or MM	10Gbps SM or MM		
Out of Band Management	yes	yes	no	yes
Console Port	RS-232 (AT-compatible) w	ith male DB-9 connectors		
eatures	No. Daharian haradahar	in an de ll'Estante e " e la suitterre		
Equalizing		ing via "fairness" algorithms g, & e-mail over bandwidth h		
Bandwidth Shaping			ogs mar can ciog your ne	WUIN.
Bandwidth Limiting	By IP, subnet, MAC, VLAN, and Bandwidth Pools 1) Hard Limits by IP (with optional Bursting), subnet, or MAC address			
	<ol> <li>Hard Limits by IP (with optional Bursting), subnet, or MAC address</li> <li>Shared Bandwidth Pools or VLANs</li> </ol>			
	(2) Shared Bandwidth Pools of VLANS     (3) User Bandwidth Quotas by customer IP or subnet			
	4) Connection Limits by cus	stomer IP or subnet		
P2P and Encrypted P2P	Yes. Equally effective on be	oth encrypted and unencrypted	ed P2P. Implemented via	a Connection Limits.
Control & Containment				
Caching	yes (optional NCO)	yes (optional NCO)	no	no
Redundancy / Failover	1) Full Redundancy: Install	Secondary NetEq in active:p	bassive mode; hot swapp	able via STP.
	2) Failover: Install a third-party switch in STP mode (available from APconnections).			
			liable from APconnection	0).
	3) Failover: Use STP mode		liable from APconnection	o).
Device Management		on your own switch.		
Device Management Interoperability	3) Failover: Use STP mode	on your own switch.		
Interoperability Logging	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes.	e on your own switch. Inet CLI, Console access		
Interoperability Logging Reporting:	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Repc	on your own switch. Inet CLI, Console access orting (RTR): RTR offers up	Current Activity Reports.	
Interoperability Logging Reporting: Dynamic Real-Time Reporting	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Repo to-the second sortable and	on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6	Current Activity Reports. Includes: 1) Instantaneo	us Bandwidth Usage by
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Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) &	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Report to the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flc Current Activity Reports:	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes:	Current Activity Reports. Includes: 1) Instantaneo	us Bandwidth Usage by Pool,
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Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Repo to-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flo Current Activity Reports: 1) Instantaneous Bandwidtf Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ows, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N	us Bandwidth Usage by Pool, letEqualizer log.
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Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Repo to-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flo Current Activity Reports: 1) Instantaneous Bandwidtt Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b ntop (available through 207 trend analysis and graphs.	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: h Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 14) also provides historical	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended.	us Bandwidth Usage by Pool, letEqualizer log.
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Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Dept (length) Weight Power Rating	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Report to the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flc Current Activity Reports: 1) Instantaneous Bandwidtt Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b ntop (available through 201 trend analysis and graphs. <u>1U</u> yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 lbs (5.05 kg)	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U [180W C (50°- 95°F)	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. <b>small form-factor</b> no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F)	US Bandwidth Usage by Pool, letEqualizer log. Yes, via ntop. 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 lbs (5.05 kg) 118W Operating Temp: 10°- 35°C (50°- 95°F)
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Depth (length) Weight Power Rating Operating Temperature &	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Report to the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b ntop (available through 20' trend analysis and graphs. 10 yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 lbs (5.05 kg)	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U [180W C (50°- 95°F)	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. <b>small form-factor</b> no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp:	US Bandwidth Usage by Pool, letEqualizer log. Yes, via ntop. 12 Yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 118W Operating Temp: 10° 35°C (50° - 95°F) Operating RH: 8% -
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Depth (length) Weight Power Rating Operating Temperature &	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Report to the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b ntop (available through 20' trend analysis and graphs. 10 yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 lbs (5.05 kg)	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U [180W C (50°- 95°F)	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. small form-factor no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.54 in (16.6 cm) 6.54 in (16.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing) unlisted	US Bandwidth Usage by Pool, letEqualizer log. Yes, via ntop. 12 Yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 118W Operating Temp: 10° 35°C (50° - 95°F) Operating RH: 8% -
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Depth (length) Weight Power Power Rating Operating Temperature & Relative Humidity	3) Failover: Use STP mode Web browser interface, Te SNMP MIB Yes. Dynamic Real-Time Report to the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flc Current Activity Reports: 1) Instantaneous Bandwidtt Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b ntop (available through 201 trend analysis and graphs. <u>1U</u> yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 Ibs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 14) also provides historical 1U 180W 2 (50° - 95°F) ion-condensing)	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. <b>small form-factor</b> no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing) unlisted FANLESS Thermal	US Bandwidth Usage by Pool, ketEqualizer log. Yes, via ntop. 17 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm) 11.1 lbs (5.05 kg) 11.8W Operating Temp: 10°- 35°C (50°- 95°F) Operating RH: 8% - 90% (non-condensing)
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Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Depth (length) Weight Power Power Rating Operating Temperature & Relative Humidity Heat Dissipation	<ul> <li>3) Failover: Use STP mode</li> <li>Web browser interface, Te</li> <li>SNMP MIB</li> <li>Yes.</li> <li>Dynamic Real-Time Reports:</li> <li>to-the second sortable and</li> <li>traffic analysis. Includes: 1)</li> <li>Connections, 3) Top 10 Flc</li> <li>Current Activity Reports:</li> <li>1) Instantaneous Bandwidtf</li> <li>Pool, 2) P2P Locator, and 3</li> <li>Yes. Dynamic Real-Time</li> <li>Traffic Reports provide up</li> <li>Bandwidth Graphs by IP or</li> <li>charts selected protocols b</li> <li>ntop (available through 201</li> <li>trend analysis and graphs.</li> <li>11.7 in (4.3 cm)</li> <li>16.8 in (42.6 cm)</li> <li>11.1 lbs (5.05 kg)</li> <li>132W</li> <li>Operating Temp: 10°- 35°C</li> <li>Operating RH: 8% - 90% (r</li> <li>450.40 BTU/hr</li> <li>260W AC with PFC</li> </ul>	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U 180W C (50°- 95°F) ion-condensing) 617.58 BTU/hr	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. small form-factor no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing) unlisted FANLESS Thermal Module. Noise : 20dB Operating Temp : 0 ~ 40°C (32 ~ 104°F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V	Image: system i           Yes, via ntop.           Yes, via ntop.           Yes, via ntop.           1.7 in (4.3 cm)           16.8 in (42.6 cm)           14.0 in (35.6 cm)           11.1 lbs (5.05 kg)           118W           Operating Temp: 10°- 35°C (50°- 95°F)           Operating RH: 8% - 90% (non-condensing 402.63 BTU/hr           260W AC with PFC 100-240 VAC, 50-60H 4 Amp max
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity  Reporting: Trend Analysis & Graphs  Dimensions Rack Mountable Height Width Depth (length) Weight Power Power Rating Operating Temperature & Relative Humidity  Heat Dissipation	<ul> <li>3) Failover: Use STP mode</li> <li>Web browser interface, Te</li> <li>SNMP MIB</li> <li>Yes.</li> <li>Dynamic Real-Time Reports:</li> <li>to-the second sortable and</li> <li>traffic analysis. Includes: 1)</li> <li>Connections, 3) Top 10 Flc</li> <li>Current Activity Reports:</li> <li>1) Instantaneous Bandwidtf</li> <li>Pool, 2) P2P Locator, and 3</li> <li>Yes. Dynamic Real-Time</li> <li>Traffic Reports provide up</li> <li>Bandwidth Graphs by IP or</li> <li>charts selected protocols b</li> <li>ntop (available through 201</li> <li>trend analysis and graphs.</li> <li>11.7 in (4.3 cm)</li> <li>16.8 in (42.6 cm)</li> <li>11.1 lbs (5.05 kg)</li> <li>132W</li> <li>Operating Temp: 10°- 35°C</li> <li>Operating RH: 8% - 90% (r</li> <li>450.40 BTU/hr</li> <li>260W AC with PFC</li> </ul>	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U 180W C (50°- 95°F) ion-condensing) 617.58 BTU/hr	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended.	Image: system i           Yes, via ntop.           Yes, via ntop.           Yes, via ntop.           1.7 in (4.3 cm)           16.8 in (42.6 cm)           14.0 in (35.6 cm)           11.1 lbs (5.05 kg)           118W           Operating Temp: 10°- 35°C (50°- 95°F)           Operating RH: 8% - 90% (non-condensing 402.63 BTU/hr           260W AC with PFC 100-240 VAC, 50-60H 4 Amp max
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity  Reporting: Trend Analysis & Graphs  Dimensions Rack Mountable Height Width Depth (length) Weight Power Rating Operating Temperature & Relative Humidity  Heat Dissipation  Power Supply	<ul> <li>3) Failover: Use STP mode</li> <li>Web browser interface, Te</li> <li>SNMP MIB</li> <li>Yes.</li> <li>Dynamic Real-Time Reports:</li> <li>to-the second sortable and</li> <li>traffic analysis. Includes: 1)</li> <li>Connections, 3) Top 10 Flc</li> <li>Current Activity Reports:</li> <li>1) Instantaneous Bandwidtf</li> <li>Pool, 2) P2P Locator, and 3</li> <li>Yes. Dynamic Real-Time</li> <li>Traffic Reports provide up</li> <li>Bandwidth Graphs by IP or</li> <li>charts selected protocols b</li> <li>ntop (available through 201</li> <li>trend analysis and graphs.</li> <li>11.7 in (4.3 cm)</li> <li>16.8 in (42.6 cm)</li> <li>11.1 lbs (5.05 kg)</li> <li>132W</li> <li>Operating Temp: 10°- 35°C</li> <li>Operating RH: 8% - 90% (r</li> <li>450.40 BTU/hr</li> <li>260W AC with PFC</li> </ul>	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U 180W C (50°- 95°F) ion-condensing) 617.58 BTU/hr	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. small form-factor no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing) unlisted FANLESS Thermal Module. Noise : 20dB Operating Temp : 0 ~ 40°C (32 ~ 104°F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V	Image: system i           yes, via ntop.           Yes, via ntop.           Yes, via ntop.           yes           1.7 in (4.3 cm)           16.8 in (42.6 cm)           14.0 in (35.6 cm)           11.1 lbs (5.05 kg)           118W           Operating Temp: 10°- 35°C (50°- 95°F)           Operating RH: 8% - 90% (non-condensing)           402.63 BTU/hr           260W AC with PFC           100-240 VAC, 50-60H           4 Amp max
Interoperability Logging Reporting: Dynamic Real-Time Reporting (RTR) & Current Activity Reporting: Trend Analysis & Graphs Dimensions Rack Mountable Height Width Depth (length) Weight Power Power Rating Operating Temperature & Relative Humidity Heat Dissipation Power Supply Safety and Certifications Safety, Emission, & Power	<ul> <li>3) Failover: Use STP mode</li> <li>Web browser interface, Te</li> <li>SNMP MIB</li> <li>Yes.</li> <li>Dynamic Real-Time Reports</li> <li>to the second sortable and traffic analysis. Includes: 1)</li> <li>Connections, 3) Top 10 Flc</li> <li>Current Activity Reports:</li> <li>1) Instantaneous Bandwidtf</li> <li>Pool, 2) P2P Locator, and 3</li> <li>Yes. Dynamic Real-Time Traffic Reports provide up Bandwidth Graphs by IP or charts selected protocols b</li> <li>ntop (available through 201 trend analysis and graphs.</li> <li>10</li> <li>yes</li> <li>1.7 in (4.3 cm)</li> <li>16.8 in (42.6 cm)</li> <li>11.1 lbs (5.05 kg)</li> <li>132W</li> <li>Operating Temp: 10°- 35°C</li> <li>Operating RH: 8% - 90% (r</li> <li>450.40 BTU/hr</li> <li>260W AC with PFC</li> <li>100-240 VAC, 50-60Hz, 4</li> <li>USA - UL listed, FCC</li> </ul>	e on your own switch. Inet CLI, Console access orting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: In Usage by IP, VLAN, or 3) NetEqualizer Log. Reporting (RTR): 'NEW' to 1 day of data in network. Protocol Tracking y IP or network. (4) also provides historical 1U [180W (50°- 95°F) ion-condensing) 617.58 BTU/hr Amp max	Current Activity Reports. Includes: 1) Instantaneo IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. small form-factor no 1.89 in (4.8 cm) 6.54 in (16.6 cm) 6.18 in (15.7 cm) 2.38 lbs (1.08 kg) unlisted Operating Temp: 0°- 40°C (32°- 104°F) Operating RH: up to 90% (non-condensing) unlisted FANLESS Thermal Module. Noise : 20dB Operating Temp : 0 ~ 40°C (32 ~ 104°F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V US Power Cord (standard)	Image: system           us Bandwidth Usage by Pool, ketEqualizer log.           Yes, via ntop.           17 in (4.3 cm)           16.8 in (42.6 cm)           11.1 lbs (5.05 kg)           118W           Operating Temp: 10°- 35°C (50° - 95°F)           90% (non-condensing 402.63 BTU/hr           260W AC with PFC 100-240 VAC, 50-60H 4 Amp max           USA - UL listed, FCC
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### About APconnections

APconnections is an innovation-driven technology company that delivers best-inclass 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, affordable, 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.