NetEqualizer 2000 Series Data Sheet



The NetEqualizer 2000 Series has been discontinued as of February, 2013. We will continue to offer License Upgrades on existing units and Support via <u>NSS and NHW</u>. We are moving these license levels onto our more powerful NE3000 series, to better prepare for 64-bit processing in upcoming releases.

NE2000 is our standard bandwidth shaping solution, suitable for most businesses. Designed for deployments from 10Mbps to 150Mbps, it is a rack-mountable unit capable of handling up to 5,000 network users on internet links of up to 150 Mbps.

Just like all of our NetEqualizer models, the NE2000 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 2000 Features:

- Low-cost, available factory-direct with in-house engineering support.
- Equalizes up to 150 megabits traffic (full duplex).
 Optimizes your hardware investment. License upgrades available as you increase network capacity.
- 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 browsing, chat and e-mail over large file downloads and video that can clog your network.
- Supports up to 5,000 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.
- (For units purchased < Aug 2011) Real-time traffic monitoring for both IPv4 & IPv6 traffic, is available via logs, active connections, and instantaneous bandwidth usage reports. Trend analysis and graphs included (via ntop). P2P Locator also available.
- (For units purchased >= Aug 2011) 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. Trend analysis and graphs included via *Traffic Reports*, which 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 3rd party switch.
- 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.	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
	50Mbps			to the NE3000.
	100Mbps 150Mbps			
	350Mbps			
	1Gbps			
Latency	< 1 millisecond (ms)			
Pools / VLANs / Subnets	500	500	40	500
Interfaces				
Network Interfaces	2 - copper 10/100/1000	2 - copper 10/100/1000	2 - copper	2 - copper
(in/out) (internal/external)	10 Gbps copper optional Fiber optional: 1Gbps &	10 Gbps copper optional Fiber optional: 1Gbps &	10/100/1000 Fiber optional	10/100/1000 Fiber optional
	10Gbps SM or MM	10Gbps SM or MM	i ibei optional	i ibei optionai
Out of Band Management	yes	yes	no	yes
Console Port	RS-232 (AT-compatible) wi	th male DB-9 connectors		
Features				
Equalizing		ing via "fairness" algorithms		
Dan decidab Chamina		g, & e-mail over bandwidth h	ogs that can clog your net	twork.
Bandwidth Shaping	By IP, subnet, MAC, VLAN		MO - Ida	
Bandwidth Limiting	1) Hard Limits by IP (with optional Bursting), subnet, or MAC address 2) Shared Bandwidth Pools or VI ANs			
	Shared Bandwidth Pools or VLANs User Bandwidth Quotas by customer IP or subnet			
	4) Connection Limits by cus			
P2P and Encrypted P2P	Yes. Equally effective on bo	oth encrypted and unencrypte	ed P2P. Implemented via	Connection Limits.
Control & Containment			·	
Caching	yes (optional NCO)	yes (optional NCO)	no	no
Redundancy / Failover		Secondary NetEq in active:p		
	Pailover: Install a third-party switch in STP mode (available from APconnections). Failover: Use STP mode on your own switch.			
	(3) Fallover: Use STP mode	on your own switch.		
Device Management	Web browser interface, Tel	net CLI, Console access		
Interoperability	SNMP MIB	net CLI, Console access		
Interoperability Logging	SNMP MIB Yes.	*	Current Activity Penorte	
Interoperability Logging Reporting:	SNMP MIB Yes. Dynamic Real-Time Repo	rting (RTR): RTR offers up-	Current Activity Reports.	
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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	SNMP MIB Yes. Dynamic Real-Time Reports the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc 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 ntop (available through 20 through analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm)	rting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: Includes: In	Includes: 1) Instantaneous IP, VLAN, or Bandwidth 2) P2P Locator, and 3) No. ntop not recommended. small form-factor no 1.89 in (4.8 cm) 6.54 in (16.6 cm)	us Bandwidth Usage by Pool, letEqualizer log. Yes, via ntop. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm)
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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)	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Fig. 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 be ntop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm)	rting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 4) also provides historical 1U	Includes: 1) Instantaneous IP, VLAN, or Bandwidth 2) P2P Locator, and 3) 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)	us Bandwidth Usage by Pool, letEqualizer log. Yes, via ntop. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 14.0 in (35.6 cm)
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flocurrent 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 bintop (available through 201 trend analysis and graphs. 1U 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)	rting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 4) also provides historical 1U	Includes: 1) Instantaneou 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)	TU 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)
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 &	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc 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 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C	rting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 4) also provides historical 1U	Includes: 1) Instantaneous IP, VLAN, or Bandwidth 2) P2P Locator, and 3) 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	### Top
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up it Bandwidth Graphs by IP or charts selected protocols b ntop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: 1 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	Includes: 1) Instantaneou 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)	TU 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% - 90% (non-condensing)
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 &	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc 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 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C	rting (RTR): RTR offers up- searchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking y IP or network. 4) also provides historical 1U	Includes: 1) Instantaneous IP, VLAN, or Bandwidth 2) P2P Locator, and 3) 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	### Top
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up it Bandwidth Graphs by IP or charts selected protocols b ntop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: 1 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	Includes: 1) Instantaneou 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 Module. Noise: 20dB	TU 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% - 90% (non-condensing)
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up it Bandwidth Graphs by IP or charts selected protocols b ntop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: 1 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	Includes: 1) Instantaneou 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:	TU 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% - 90% (non-condensing)
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up in Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active wws, 4) Penalized Flows. Includes: 1 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	Includes: 1) Instantaneou 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)	1U 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% - 90% (non-condensing) 402.63 BTU/hr
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flot Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up or Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no) 450.40 BTU/hr	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) 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) on-condensing)	Includes: 1) Instantaneou 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 ~ 40C (32 ~ 104F) 65W (19V, 3.42A) AC	1U 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% - 90% (non-condensing) 402.63 BTU/hr
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up in Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) 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) on-condensing)	Includes: 1) Instantaneou 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)	1U 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% - 90% (non-condensing) 402.63 BTU/hr
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flot Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up or Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no) 450.40 BTU/hr	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) 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) on-condensing)	Includes: 1) Instantaneou 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 ~ 104F) 65W (19V, 3.42A) AC Adapter, AC 100 ~	1U 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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Flot Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up or Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no) 450.40 BTU/hr	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) 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) on-condensing)	Includes: 1) Instantaneou 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 ~ 104F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V	1U 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	SNMP MIB Yes. Dynamic Real-Time Reporto-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 the bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (note) 450.40 BTU/hr 260W AC with PFC 100-240 VAC, 50-60Hz, 4 and traffic	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: 1 Usage by IP, VLAN, or 8) 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) on-condensing)	Includes: 1) Instantaneou IP, VLAN, or Bandwidth 2) P2P Locator, and 3) N No. ntop not recommended. 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: 0~40C (32~104F) 65W (19V, 3.42A) AC Adapter, AC 100~ 240V US Power Cord (standard)	1U 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% - 90% (non-condensing) 402.63 BTU/hr 260W AC with PFC 100-240 VAC, 50-60H 4 Amp max USA - UL listed, FCC
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc 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 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) 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) on-condensing)	Includes: 1) Instantaneou 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 ~ 40C (32 ~ 104F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V US Power Cord (standard)	us Bandwidth Usage by Pool, letEqualizer log. 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 USA - UL listed, FCC Canada - CUL listed
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc Current Activity Reports: 1) Instantaneous Bandwidth Pool, 2) P2P Locator, and 3 Yes. Dynamic Real-Time Traffic Reports provide up of Bandwidth Graphs by IP or charts selected protocols bentop (available through 201 trend analysis and graphs. 1U 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) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (no. 450.40 BTU/hr 260W AC with PFC 100-240 VAC, 50-60Hz, 4 december 201 listed Germany - TUV certified	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or B) NetEqualizer Log. Reporting (RTR): *NEW* to 1 day of data in network. Protocol Tracking yIP or network. 4) also provides historical 1U 180W C (50°- 95°F) on-condensing) 617.58 BTU/hr	Includes: 1) Instantaneou 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) UL, FCC, CE, CB, BSMI FCC: Class B - Part 15	JU 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 USA - UL listed, FCC Canada - CUL listed Germany - TUV certifies
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	SNMP MIB Yes. Dynamic Real-Time Reporto-the second sortable and traffic analysis. Includes: 1) Connections, 3) Top 10 Floc 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 201 trend analysis and graphs. 1U yes 1.7 in (4.3 cm) 16.8 in (42.6 cm) 11.1 lbs (5.05 kg) 132W Operating Temp: 10°- 35°C Operating RH: 8% - 90% (n	rting (RTR): RTR offers upsearchable IPv4 and IPv6 Pools, 2) Active ws, 4) Penalized Flows. Includes: I Usage by IP, VLAN, or 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) on-condensing) 617.58 BTU/hr Amp max	Includes: 1) Instantaneou 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 ~ 40C (32 ~ 104F) 65W (19V, 3.42A) AC Adapter, AC 100 ~ 240V US Power Cord (standard)	USA - UL listed, FCC

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,
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.