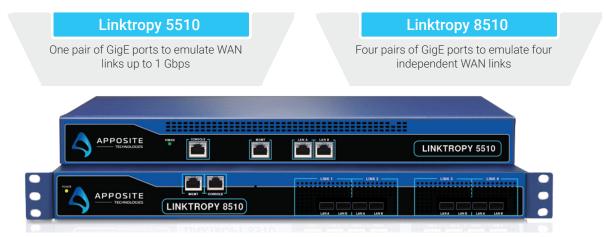


Apposite's award-winning Linktropy[®] and Netropy[®] WAN emulators simulate bandwidth, latency, jitter, loss, congestion, and other network impairments to test application performance in the lab.

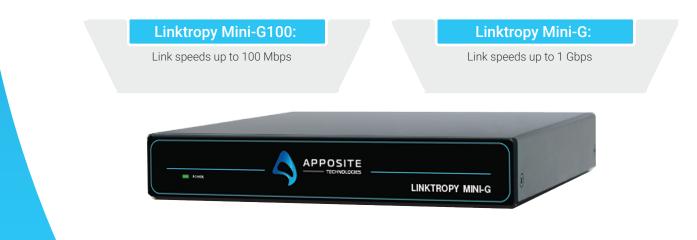
Linktropy WAN Emulators

Enterprise-class WAN emulators to simulate a single WAN link through each pair of physical interfaces.



Linktropy Mini Emulators

Portable, low-cost emulators to simulate basic network conditions for application development and customer demonstrations.



Netropy Network Emulators

Advanced enterprise-class network emulators to simulate up to 15 separate virtual WAN links, each with their own bandwidth, range, VLAN, or other packet identifier. Netropy also offers advanced modeling and administrative capabilities for complex scenarios or multiuser environments delay, and loss characteristics, through each pair of physical ports. Packets can be assigned to different links by IP address.



About Apposite Technologies

Apposite Technologies makes WAN emulation easy by offering professional-quality network emulation tools at affordable prices. Apposite's award-winning Netropy and Linktropy WAN emulation appliances simulate bandwidth, latency, loss, congestion, and other network impairments with fine-grained precision to provide accurate simulations of any type of wide-area network. Netropy and Linktropy WAN emulators are widely deployed by leading enterprises, application and equipment developers, telecoms carriers, and government and military organizations around the world. Apposite Technologies – WAN Emulation Made Easy

Specifications	Linktropy Mini-G / Mini-G100	Linktropy 5510 / 8510	Netropy N61 / N91 / 10G1 / 10G2 / 10G4 / 100G
		Capacity	
Maximum Emulation Rate	Mini-G100:100 Mbps Mini-G: 1 Gbps	5510: 1 Gbps 8510: 1 Gbps	N61: 1 Gbps 10G1: 10 Gbps 10G4: 10 Gpbs N91: 1 Gbps 10G2: 10 Gbps 100G: 100Gbps
Emulated WAN Links (per port pair)	1	1	30
Emulation Ports	2 GigE	5510: 2 GigE 8510: 8 GigE	N61: 2 GigE 10G1: 2 10GbE 10G4: 8 10GbE N91: 8 GigE 10G2: 4 10GbE 100G: 2 100Gbe
Maximum Packet Rate 64 byte packets (packets per second)	350,000	5510: 3 million 8510: 12 million	N61: 3 million 10G1: 29 million 10G4:119 million N91:12 million 10G2: 59.5 million 100G: 32 million
Test Lab Level Precision		 ✓ 	✓
Link Impairments			
Packet Filtering	N/A	N/A	Source and dest. IP address (IPv4 or IPv6), VLAN, TCP/UDP port numbers, MAC address, MPLS label, any arbitrary packet field
Bandwidth Emulation	300 bps to 1 Gbps (depending on model)	300 bps to 1 Gbps	100 bps to 100Gbps (depending on model)
Latency & Jitter		0,000 ms iform, normal	0 ms – 10,000 ms constant, uniform, normal, exponential, accumulate & burst
Packet Loss	Random, BER	Random, BER	Random, Periodic, Burst, BER, Gilbert-Elliot
Data Corruption			\checkmark
Network Outage			\checkmark
Packet Reordering		✓	✓
Packet Duplication		✓	✓
Queue Management	Tail drop	Tail Drop	Tail drop, RED
Access Link Rate Control	Out-bound	Out-bound	In-bound and Out-Bound
Live Condition Capture and Replay		✓	✓
Background Traffic		Random	Random, PCAP replay
ToS Prioritization			FIFO, Strict Priority, Round Robin
MTU and Fragmentation			\checkmark
Installation and Operation			
Form Factor	Portable 6" x 6"	5510: 1U 8510: 1U	N61: 1U 10G1: 1U 10G4: 2U N91: 1U 10G2: 2U 100G: 2U
Throughput Graphs	Previous 10 minutes	Previous 10 minutes	24 hours
Statistics Download		24 Hours	24 hours
Full CLI		✓	✓
SSL and SSH Secure Management		✓	✓
Jumbo Frame Support	✓	✓	✓
LDAP User Authentication			✓
DHCP, DNS, NTP			✓
Multiple Users With Configuration Locking			✓





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