



APPOSITE
TECHNOLOGIES

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

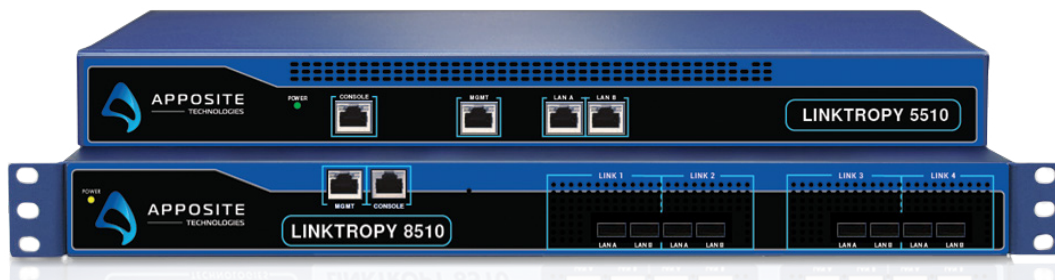
Enterprise-class WAN emulators to simulate a single WAN link through each pair of physical interfaces.

Linktropy 5510

One pair of GigE ports to emulate WAN links up to 1 Gbps

Linktropy 8510

Four pairs of GigE ports to emulate four independent WAN links



Linktropy Mini Emulators

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

Linktropy Mini-G100:

Link speeds up to 100 Mbps

Linktropy Mini-G:

Link speeds up to 1 Gbps



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.

Netropy N61

Emulates 30 separate WAN links through one pair of GigE ports



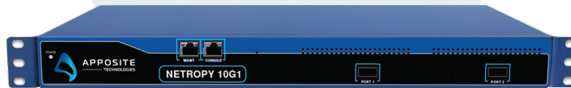
Netropy N91

Emulates up to 30 WAN links through each of four pairs of GigE ports



Netropy 10G1

Emulates one 10 Gbps link or 30 lower speed links through one pair of 10G SFP+ or RJ45 ports



Netropy 10G2

Emulates two 10 Gbps links or 30 lower speed links through two pairs of 10G SFP+ ports



Netropy 10G4

Emulates four 10 Gbps links or 30 lower speed links through four pairs of 10G SFP+ ports



Netropy 100G

Supports 25 Gbps, 40 Gbps & 100 Gbps
Emulated WAN links: 2 100GbE
Max packet rate: 32 million



NetropyCE

Cloud edition of 1 Gbps WAN emulator for cloud environments.

NetropyVE

Virtual edition of 1 Gbps WAN emulator for virtual environments

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 Mini2 / Mini-G | Linktropy 5510 / 8510 | Netropy N61 / N91 / 10G1 / 10G2 / 10G4 / 100G |
|---|---|-------------------------------------|---|
| Capacity | | | |
| Maximum Emulation Rate | Mini2: 100 Mbps Mini-G: 1 Gbps | 5510: 1 Gbps 8510: 1 Gbps | N61: 1 Gbps 10G1: 10 Gbps 10G4: 10 Gbps 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 ms – 10,000 ms constant, uniform, 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 | | | ✓ |
| Network Outage | | | ✓ |
| 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 | | | ✓ |
| 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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Avizent Network Solutions