STEP ELECTRONICS
A Division of Av-Comm

TrafficJam®
Traffic Generator

APPOSITE TECHNOLOGIES

Test the Limits of Your Network

TrafficJam™ is a high-performance, low-cost test tool that generates up to 1 Gbps of TCP and UDP traffic for measuring the capacity of networks and networking equipment.

This light-weight, portable device generates stateful TCP connections that provide realistic responses to changing network conditions. TrafficJam's flexible configuration options allow you to match real traffic or test the effect of different TCP parameters on network performance. Validate throughput, track packet loss, and measure latency with the accuracy of valid traffic.

With TrafficJam's easy to use, browser-based GUI configuration is quick and simple, and the live graphs and statistics allow for real-time monitoring of connections.

Apposite's TrafficJam Makes It Easy to Quickly Test the Capacity and Performance of your Network and Networking Equipment

CAPABILITIES

- Send and receive up to 20 separate TCP connections and UDP streams simultaneously.
- Generate 1 Gbps of traffic through each of the two separate ethernet test ports.
- Assign up to 20 separate IP addresses (IPv4 or IPv6) per port.
- Use multiple devices to test across networks to separate physical locations or a single device to run loop testing in a lab.
- Run each traffic stream once, multiple times or continuously and analyze data in real time.
- Group connections to run simultaneously and graph all streams' data together.

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USE CASES

Throughput Validation

Are you getting the committed data rate that a carrier agreed to provide? Run traffic over the network and measure the bandwidth that's available to validate throughput.

Network Saturation/Interference

Add traffic to your network during performance testing to understand how your application will behave while the network is saturated with other traffic.

WAN Acceleration

Determine the optimum configuration for your WAN acceleration solution, and run traffic to verify that it is working as expected.

Network Load Testing

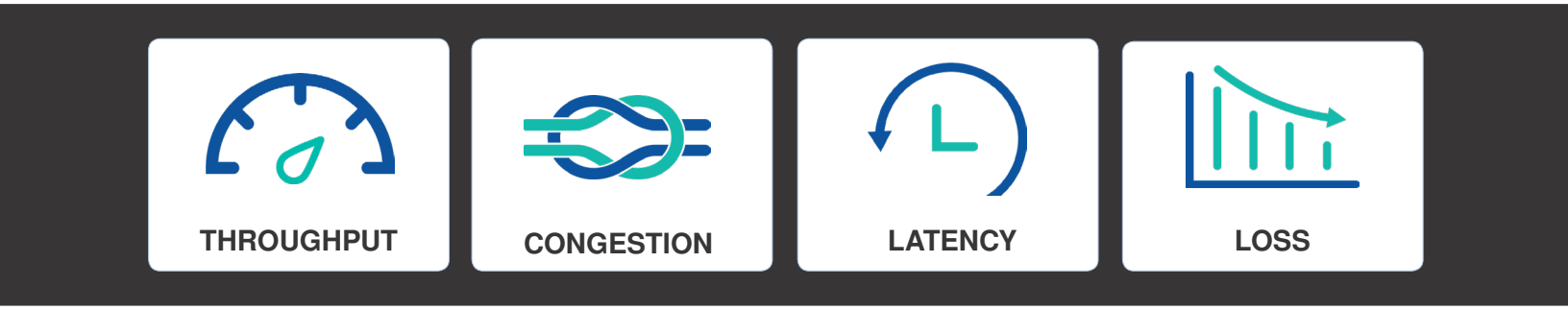
Perform network stress tests to see how a network handles different traffic loads. Or, test connections and adjust the traffic to achieve the desired network load based on your requirements.

Network Troubleshooting

Measure network performance indicators (i.e., latency, throughput and packet loss) to find the "weakest links" in the network or potential problems with network configurations.

Protocol Testing

Validate that traffic is obeying new routing protocols or test the effectiveness of network changes.



CONFIGURATION OPTIONS

IP Configuration Options

- IP addresses (IPv4 or IPv6) - 20 per port
- IP MSS
- IP Type of Service (ToS)

UDP Configuration Options

- Number of parallel UDP streams
- Transmit rate per stream
- Stream completion criteria (time, datagrams, continuous)
- Packet contents (zeros, ones, pattern, random)

TCP Configuration Options

- Number of parallel TCP connections
- Connection completion criteria (time, bytes, or continuous)
- Max. transmit rate per connection
- TCP receive window size
- Congestion control algorithm
- Packet contents (zeros, ones, pattern, random)
- Enable/disable the Nagle algorithm

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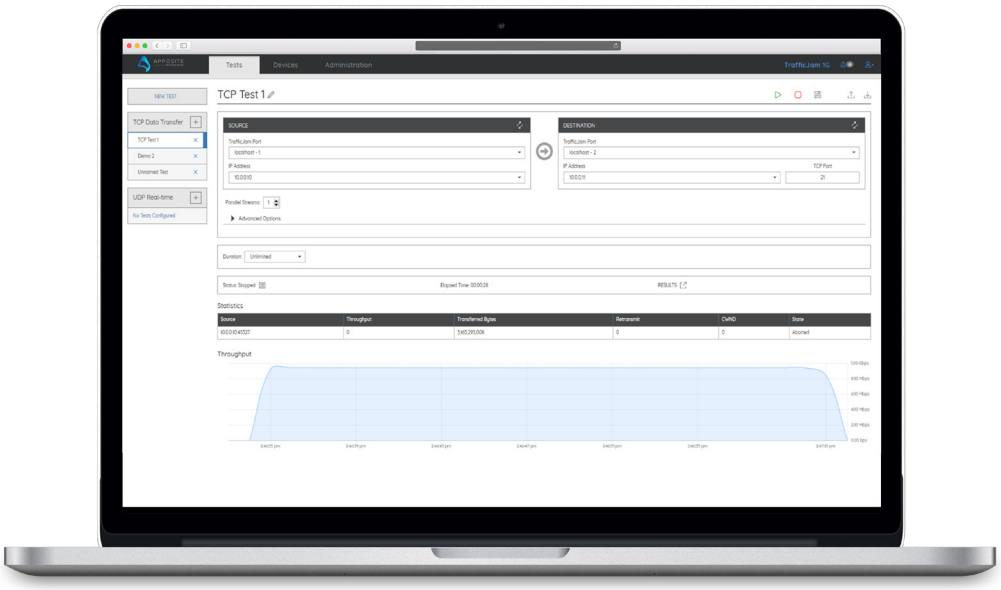
USER INTERFACE



SPECIFICATIONS

Capacity	
Test Ports	2x Gig Ethernet (copper)
Max. Agg. Throughput	2 Gbps
Maximum Packet Rate	350,000 pps
Maximum Frame Size	9KB
Interfaces	
Management	1x Gigabit Ethernet (GE), 1x RS-232 serial console
Power Supply	Single
Security	SSH, no SSL. Password protection
Physical Box	
Dimensions	6.6" W x 6.2" D x 1.2" H (168 mm x 157 mm x 30 mm)
Warranty & Support	
Hardware Warranty	1 year
Support & Maintenance	1 year
Ordering Information	
Part Number	TJ1G

About Apposite

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

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