

# 400G TRITON

## NETWORK TRAFFIC GENERATION

Large scale realistic traffic generation over 4 x 100GbE

The Triton NTG appliance allows testers to rapidly ramp up traffic to maximum occupancy on 4 x 100GbE, with a packet rate beyond 560M pps. Traffic is generated based on pre-loaded PCAP files, with source and destination manipulation for amplification, resulting in a traffic mix that closely resembles real world conditions.

Users configure traffic runs using the Telesoft Triton NTG GUI or for those familiar with open source tools, a familiar TRex interface. For control from automated test systems and scripts, there is a RestAPI providing full configuration and control. Traffic is defined from PCAP templates that are pre-processed, mixed, amplified and sent over 4 x 100GbE fibres.

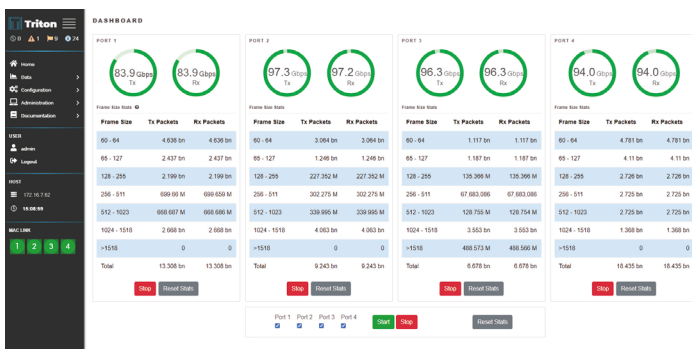
Flows can be encapsulated within run-time configurable tunnels, giving the user the ability to generate GTP, GRE and IP in IP tunneled traffic, ideal for realistically simulating real world network scenarios, such as a mobile network's user plane.



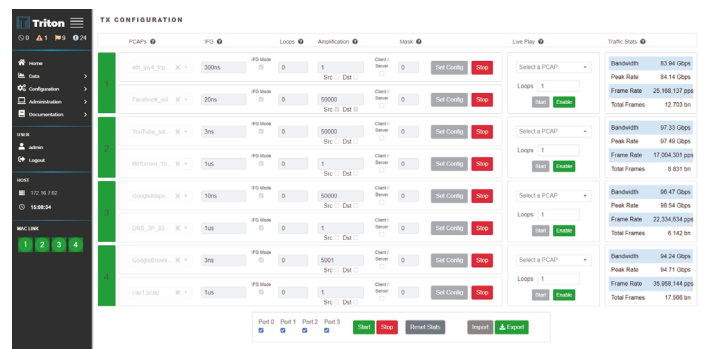
The Triton NTG can be used for benchmarking and stress testing of

- 5G Network Infrastructure
- DPI - Deep Packet Inspection
- NAT - Network Address Translation
- Firewall/IDS - Intrusion Detection Systems
- IPS - Intrusion Prevention Systems
- Layer 4 and Layer 7 Load Balancer

### 400G TRITON



Triton Dashboard



Triton Traffic Configuration

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## KEY FEATURES

560Mpps traffic generation over 4 x 100GbE ports	Saturate 100GbE data links with small packets
Amplify and mix PCAP, live traffic streams and synthetic traffic profiles	Open-source TRex support
On-card storage for PCAP files	Pre-load multiple traffic pcap templates for multiplication
Create complex traffic profiles	Multiple traffic profiles and PCAPs per 100GbE port
5s sustained record 100Gb/s line-rate	Real time attack traffic visualisations
4 x 100G Ports supported	Stress test large scale network infrastructure
Manipulate source and/or destination IP addresses for flow multiplication	Generate huge volumes of traffic based on real user and network activity that is more representative than synthetic traffic.
Support for GRE, GTP and IP in IP tunnel simulation	Recreate realistic network traffic scenarios at rate

## TECHNICAL SPECIFICATIONS

Physical	<ul style="list-style-type: none"> <li>• 1U 19-inch rack mount</li> <li>• 1.7 x 17.2 x 30.6 in (4.3 x 43.7 x 77.7 cm)</li> </ul>
Connectivity	4 x 100GBASE-LR4 QSFP28
Performance	<ul style="list-style-type: none"> <li>• Over 560Mpps spread across 4 x 100GbE ports</li> <li>• Amplify up to 16 million flows per single PCAP file</li> </ul>
Control	<ul style="list-style-type: none"> <li>• Telesoft Triton GUI</li> <li>• TREX interface</li> <li>• RestAPI for integration with automated test</li> </ul>
TRex	Supports TRex yaml config file
Power Stats	300W typical, and 400W peak

## ORDER OPTIONS

Part Number	Description
500003096	400G Triton CWS, 1U, 4 x 100GbE, QSFP28

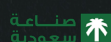


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