

# Triton NTG 4 x 100GbE

## Carrier Scale Network Traffic Generator

Large scale realistic traffic generation at rates over 560M pps on 4 x 100GbE, driven by pcap templates using an intuitive GUI, TReX interface or RestAPI

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, resulting in a traffic mix that closely resembles real world conditions.

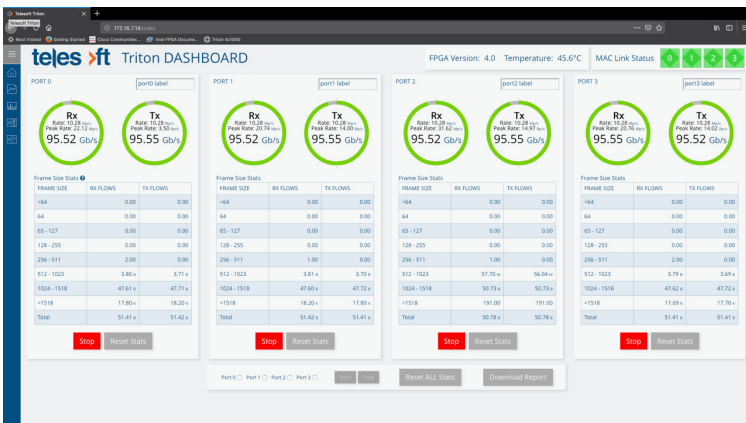
Support for high rate encryption and tunnelling makes the Triton NTG ideal for stress testing 5G mobile infrastructure.

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

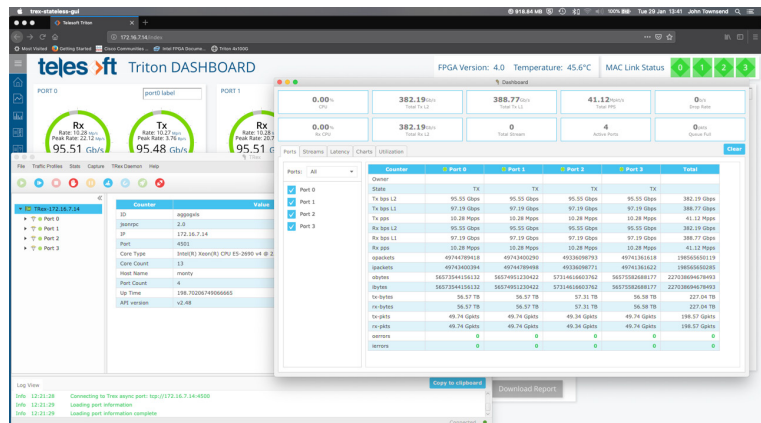
providing full configuration and control. Traffic is defined from pcap templates that are pre-processed, mixed, amplified and sent over 4 x 100GbE fibres.

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 Balancers



Triton NTG Dashboard



Triton NTG Dashboard with T-REX GUI integration

### Key Features

Replay pcap files from hardware

Amplify both server and client-side traffic with manipulation of source and / or destination IP addresses for flow multiplication

Amplify each pcap traffic file 16M times

Encrypt data and encapsulate in tunnels

On card storage for pcap files

Each pcap can be played up to 100Gbps

4 x 100G ports supported

Multiple pcap files per 100G port

Over 140 million packets per second (mpps) per port

Efficiently fully occupy 4 x 100GbE links for stress testing

Generate huge volumes of traffic based on real user and network activity that is more representative than synthetic traffic

Rapidly run up large traffic generation from a single pcap template

Emulate bulk 5G traffic for infrastructure stress testing

Pre-load multiple traffic pcap templates for multiplication

Stress test 100GbE equipment with minimal configuration

Stress test large scale network infrastructure

Mix different real traffic samples to build complex traffic profiles

Saturate 100GbE data links with small packets at full utilisation

### Technical Specifications

- Physical**
  - 1RU 19-inch rack mount
  - 1.7x17.2x30.6 in (4.3x43.7x77.7 cm)
- Connectivity**
  - 4 x 100GBASE-LR4 QSFP28
- Performance**
  - Over 140M pps spread across 4 x 100GbE
  - Amplify up to 16 million flows per single pcap file
- Control**
  - Telesoft Triton NTG GUI
  - TRex Interface
  - RestAPI for integration with automated test
- TRex**
  - Supports TRex yaml config files
  - Integrated TRex console
  - Integrated TRex GUI

**Hardware**



### Order Options

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

**Headquarters**  
 Telesoft Technologies Ltd  
 Observatory House, Stour Park  
 Blandford DT11 9LQ UK  
 t. +44 (0)1258 480880  
 f. +44 (0)1258 486598  
 e. sales@telesoft-technologies.com

**Americas**  
 Telesoft Technologies Inc  
 430 National Business Parkway  
 Suite 480, Annapolis Junction  
 MD 20701  
 USA  
 e. salesusa@telesoft-technologies.com

**Asia**  
 Telesoft Technologies Ltd  
 Tapasya Corp Heights  
 Ground Floor, Sector 126  
 Noida, 201301  
 t. +91 120 612 7725  
 e. salesindia@telesoft-technologies.com

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