

# Deep Buffer Packet Broker

## Next generation appliances

### Product Overview

**NPB-1e** is part of the CGS Network Visibility portfolio that optimizes cyber security and performance monitoring applications by delivering the **required data** in the **right volume** and in the **correct format**. CGS's disaggregation approach across its entire portfolio, revolutionizes the network visibility market with its Unified Visibility Architecture (UVA) that streamlines deployment of the CGS Software Defined Packet Broker on the most modern, scalable and powerful open switches and network appliances, resulting in superior performance and scalability, wider deployment options, enhanced productivity and compelling TCO.

Equipped with deep buffers of 6GB, **NPB-1e** resolves the challenge of packet loss in cases of microbursts, when a significant number of queued packets are delivered within an extremely short time. Loss of even one network packet may result in the loss of the entire session, which could be the source of the cyber security risk or performance issue. **NPB-1e** with buffers 250X-750X larger than competitor packet broker buffers, eliminates the business and operation risks resulting from buffer overflow.

#### Key Features

High performance, modern, scalable and reliable 1RU form factor packet broker with 5+1 redundant, hot-swappable fan modules and redundant AC/DC PSU

48(SFP/SFP+) x 1G/10G + 6(QSFP/QSFP28) x 40G/100G

6GB buffer space that eliminates microburst packet loss

Aggregation, 5-tuple filtering, GRE Tunneling/Termination\* and load balancing

Up to 9 MPLS Label Stripping

Unified management including CLI, SNMP V3, WEB UI, Net CONF and REST API



#### Use Cases

- Aggregation of TAP/SPAN network traffic to a centralized location where tools are deployed
- Avoid packet loss in case of network microbursts
- Optimize tools performance by filtering network traffic
- Regenerate network traffic to multiple tools
- Load balance traffic according to tools capacities
- Adjust high rate networks to lower rate monitoring applications
- L2 Smart Matrix that enhances traffic generators with additional ports, capacities and interfaces



## Features and benefits

Features	benefits
<b>Aggregation</b>	Aggregate and redirect network traffic for further processing
<b>Replication</b>	Enable multiple tools to analyse the same traffic
<b>Inner Tunnel Filtering</b>	Filtering according to inner tunnel parameters of GTP and L2TP
<b>GRE Tunnelling</b>	Interconnect packet brokers across multiple sites with L3GRE protocol
<b>Filtering</b>	Filtering out unnecessary network traffic with conditional 5-tuple classifiers
<b>User Defined Filters</b>	Track packets that match a certain "window" in the incoming traffic
<b>AND/OR/NOT Operators</b>	Simplify packet broker operation with logic filter actions
<b>Copy</b>	Enable orthogonal filter paths on the same traffic
<b>MAC Replace</b>	Enable device tracking, identification or authentication by setting MAC address
<b>Load Balancing</b>	Symmetric/asymmetric load balancing of network traffic to multiple tools
<b>MPLS Stripping</b>	Enable applications to analyse network traffic by removing up to 9 MPLS labels
<b>Port Labelling</b>	Track packet path by adding VLAN tags that indicate its ingress port
<b>Time Stamping</b>	Enhances network visibility with nanosecond time stamping capabilities
<b>Reliability</b>	Hot/cold aisle with port-to-power and power-to-port airflow
<b>Redundancy</b>	Hot-swappable, load-sharing, redundant AC/DC PSU and N+1 fan modules
<b>Management</b>	Web UI, CLI, SNMP, Net CONF, REST API

For more information about the products and support programs please contact us at [info@cgstowernetworks.com](mailto:info@cgstowernetworks.com)