![CGS Tower Networks Ltd logo]

# Server Based Packet Broker

## Next generation appliances

## Product Overview

In today's modern network architectures, cyber and monitoring tools are required to handle incoming traffic from multiple visibility devices including TAPs, SPAN ports and NPB (Network Packet Broker) appliances. The volume and diversity in the types of traffic can be overwhelming to these tools. Duplicated packets may cause applications to be stretched to the limits of their processing power whereas packets with multiple headers (e.g. MPLS, VLAN tags, ERSPAN etc.) are often unrecognized by these tools and are typically dropped.

Advanced network processing features such as Deduplication are CPU intensive and should not be performed on the aggregation device that is CPU bound by design. The CGS Server introduces the industry's next generation NPB by leveraging advanced, high performance, modular and scalable ODM hardware that can be configured to the desired network capacity. This unique approach eliminates hardware performance constraints and allows alignment between hardware and performance requirements.

The CGS Server is the only NPB in the market that offers 100G network interfaces in a compact 1U form factor. The appliance is based on a powerful ultra-dense, reliable and versatile 1U rack server that can scale up with additional compute power and memory to meet the NPB requirements.

## Key Features

Affordable NPB (Network Packet Broker) with powerful performance

Powerful and scalable server architecture that meets performance requirements

Wide range of transceivers, optics and cables that support 1G, 10G, 25G, 40G, 100G

Aggregation, Filtering, Header Stripping, Deduplication, Data Masking, Packet Slicing, Time Stamping, Capture, De-fragmentation

## Use Cases

- Remove duplicated packets to optimize security and monitoring application performance
- Enhance legacy packet broker deployments with advanced features
- Single appliance with basic and advanced packet broker features for small sites
- MPLS stripping to enable monitoring of MPLS networks
- Mask sensitive and private customer information

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# Features and benefits

| Features | benefits |
|----------|----------|
| **Scalable Hardware** | Server platform with flexible configurations (CPU, Memory, Number of Ports & Rates) that align with performance requirements |
| **Network Interfaces** | Wide range of transceivers, optics and cables that support 1G, 10G, 25G, 40G, 100G |
| **Aggregation** | Aggregate and redirect network traffic from selected ingress ports to egress ports for further processing |
| **Filtering** | Optimize tools performance by filtering out unnecessary network traffic with conditional 5-tuple filtering (MAC address, EtherType, IP address, TCP Port, UDF) |
| **Port Labelling** | Track packet path by adding VLAN tags that indicate its ingress port |
| **Header Stripping** | Remove protocol headers (MPLS, VLAN, PPP, QinQ, VN-TAG, GRE, GTP, ERSPAN) and reduce tool resources required for aggregation and filtering |
| **Deduplication** | Maximize tool performance by eliminating duplicated packets gathered from multiple collection points that overutilize tool resources, leveraging a superior algorithm based on a window per packet signature and configurable window size |
| **Data Masking** | Allows the enterprise to protect sensitive data by overwriting it before it is sent to the tools |
| **Packet Slicing** | Improve monitoring and network data analysis performance by reducing packet size and maintaining the required packet slice for further processing |
| **Time Stamping** | Enhances network visibility with nanosecond time stamping capabilities |
| **Capture** | Capture PCAP files in filter granularity for further analysis |
| **De-Fragmentation** | Assemble packet fragments to complete packets |
| **Management** | Web UI, CLI, SNMP, Net CONF, REST API |

For more information about the products and support programs
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