CGS Tower Networks Ltd

Products that open your eyes

CGS-NPB Series

Next generation appliances

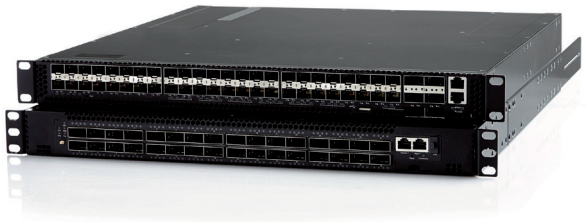
Product Overview

The **CGS-NPB** series introduces the next generation appliances providing network visibility that enables Cyber Security, Big Data analytics and monitoring tools deployed in high-end data centers and branch offices. The **CGS-NPB** appliances address the market requirement to reduce the cost, complexity and footprint of high-end network visibility solutions. The **CGS-NPB** series leverages a powerful state of the art platform combined with CGS innovative software, resulting in the most reliable, scalable, modular Packet Broker that support 1G, 10G, 25G, 40G and 100G ports and multiple interfaces (Optical, Copper, DAC) in a compact 1RU form factor.

The **CGS-NPB** series includes aggregation, replication, filtering, stacking and load balancing that enable and optimize the benefits of the tools. Additional advanced features with deep packet inspection capabilities that optimize network traffic management are available in a powerful data center ready 1RU server.

Key Features

- High density and compact 1RU form factor that saves rack space, power consumption and cooling
- **CGS-NPB-I:**
  48(SFP+) x 1G/10G + 6(QSFP) x 40G;
  Each QSFP can breakout to 4 x 1G/10G
- **CGS-NPB-II:**
  32(QSFP28) x 40G/100G or 128 x 10G/ 25G
  Each QSFP28 can breakout to 4 x 10G/25G
- Cost effective data center ready platform
- High end platform with superior reliability, redundancy, modularity and scalability
- Aggregation, filtering and advanced features



Use Cases

- Aggregation of TAP/SPAN network traffic to a centralized location where tools are deployed
- Optimize tools performance by filtering network traffic
- Eliminate duplicated packets that over utilize tools
- Regenerate network traffic to multiple tools
- Load balance traffic according to tools capacities
- L2 Matrix switch for testing environment (many to one, one to many, forwarding)

Features and benefits

Features	benefits
Compact form factor	High density compact 1RU form factor that saves rack space, energy consumption and cooling
Performance	Line rate performance that avoids packet loss Non-Blocking backplane architecture with N+1 redundancy Modern platforms that eliminate bottlenecks within the network visibility layer
Traffic Flow Management	Aggregation of 1G, 10G, 25G, 40G and 100G network ports based on MAC, VLAN, IPv4/IPv6 and TCP/UDP mapping rules Redirect network traffic to Cyber Security and Monitoring Tools through output ports based on mapping rules
Inner Tunnel Filtering	Filtering according to Inner tunnel parameters of GTP, L2TP and MPLS
GRE Tunnelling	Ability to interconnect multiple NPB devices in multiple sites over an IP network using the L3GRE protocol
Filtering	Filter network traffic and reduce load on tools based on 5-tupple qualifiers and user defined filters (UDF)
Load Balancing	Maximize the return on tools by performing symmetric/asymmetric load balancing of network traffic to multiple tools with configurable hashing
Connectivity	Wide range of transceivers, optics and cables that support 1G, 10G, 25G, 40G, 100G for common switches including Cisco, Juniper, Ericsson, SPAN PORTS and TAPS
Scalability	Scale-in across 10G, 25G, 40G and 100G within a single packet broker Scale-out by leveraging CGS Distributed Packet Broker architecture
Management	Multiple modern management options including CLI, SNMP V2/V3, WEB UI, Net CONF and REST API that can be connected to any SDN controller based management platform Remote network access through Telnet or SSH Logging that include event notification, syslog and SNMP traps Front Panel Management Ports: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage port
Reliability	Supports hot/cold aisle with port-to-power and power-to-port airflow
Redundancy	N+1 redundant, hot-swappable fan modules Hot-swappable, load-sharing, redundant AC/DC PSU

For more information about the products and support programs
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