

Network Packet Broker PacketShadow-3000



The **PacketShadow-3000** intelligent visibility switch is a versatile, high-performance platform tailored for mobile core networks, metropolitan area networks (MAN), data centers, and enterprise networks.

Supporting **100GE, 40GE, and 10GE interfaces**, it provides advanced traffic management features such as **aggregation, filtering, replication, load balancing, timestamping, and tunnel processing**.

With its high density, energy efficiency, and robust traffic preprocessing capabilities, the PacketShadow-3000 seamlessly integrates with monitoring and analysis systems to enhance network visibility and efficiency.

PRODUCT APPLICATIONS

- NPB (Network Packet Broker)

HIGHLIGHTS

- Ultra-high density Ethernet interface
- Traffic aggregation and distribution
- Tunnel inner layer IP 5 tuple filtering, load balancing, tunnel stripping
- High performance packet preprocess, such as time stamping, slicing, VLAN tagging, MAC modification, GRE termination
- High stability and reliability

KEY FEATURES OF THE PACKETSHADOW-3000 SWITCH

Programmable Hardware Platform

- Uses programmable switching chips to support software-definable protocols and packet processing
- Enables identification of new network protocols and multi-layer tunnels
- Supports software-defined forwarding behaviors, including tunnel decapsulation and flow distribution based on inner-layer IP 5-tuple

Load Balancing

- Automatically redirects traffic from failed links in a load-balancing group to active links.
- Ensures unaffected traffic flow on normal links, minimizing failure impact.

User-Friendly Management Interfaces

- Offers multiple management options, including CLI, Web UI, SNMP, and REST API, for seamless configuration and monitoring.

Multi-Level Concurrent Policy Processing

- Implements traffic policies at inbound interfaces, intermediate links, and outbound interfaces.
- Supports functions like traffic aggregation, distribution, replication, and load balancing.
- Allows flexible L2/L3/L4/L7 filtering policies and independent or unified filtering during traffic replication.

Advanced Service Processing

- Provides advanced visibility features like packet header matching, timestamping, slicing, and modification.
- Delivers wire-speed packet processing for enhanced performance.

These features make the PacketShadow-3000 a versatile, high-performance solution for network visibility and traffic analysis.

KEY SOFTWARE FUNCTIONS

<div>Packet Identification<ul style="list-style-type: none">• Link layer, IP, ICMP, TCP/UDP/SCTP, BGP/OSPF/ISIS, VLAN, VXLAN, MPLS, GTP/GRE, L2TP/PPTP, IPsec (AH, ESP).</div>	<div>Traffic Forwarding and Replication<ul style="list-style-type: none">• Load balanced output• Port 1: N & link group N: M</div>	<div>Management Style<ul style="list-style-type: none">• Serial port, Telnet, SSH, SSLv3/TLS Access WEBUI</div>
<div>Basic Matching<ul style="list-style-type: none">• IPv4/IPv6 5-tuple, physical port, SMAC/DMAC, Ether type, MPLS label, VLAN, VNI, TCP Flag, DSCP, L4 Port mask, message size, fragmented messages, etc.• Tunnel inner layer wildcard N-tuple rules• Tunnel inner layer precise IPv4/IPv6 5-tuple rules</div>		<div>Tunnel Treatment<ul style="list-style-type: none">• GRE tunnel encapsulation.• Tunnel stripping of GTP, GRE, VLAN, VXLAN, ERSPAN, IP over IP, and MPLS.• Tunnel end of GRE, VXLAN</div>
<div>Message Processing<ul style="list-style-type: none">• Add, modify, and delete VLAN tags.• Nanosecond time stamp.• Truncation based on ACL rules.• Changes to the SMAC/DMAC.</div>	<div>Load Balancing<ul style="list-style-type: none">• Based on SIP/DIP, IP 5-tuplet, SPORT/D PORT.• Based on the inner tunnel IP 5-tuple.• Resilient load balancing protection mechanism.</div>	<div>Third Party Tool Management<ul style="list-style-type: none">• Syslog, SNMP, SNMP Trap, and RESTAPI, support RADIUS and TACACS+ centralized authentication</div>

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