

# X2-2000G

PROVIDES THE DATA THAT COUNTS FOR NETWORK MONITORING

AGGREGATION, REPLICATION, L2-L4 FILTERING, LOAD BALANCING, PACKET SLICING, TIMESTAMPING

The Profitap X2-2000G is a high-end, high-density Network Packet Broker with a total throughput of 2 Tbps, offering packet slicing, timestamping, GRE de-tunneling, VXLAN de-tunneling, ERSPAN de-tunneling, and many more features. All X2-Series advanced features operate simultaneously at wirespeed without the need for a co-processor.

Featuring 16 x 1/10/25G SFP28, 32 x 10/25G SFP28, and 8 x 40/100G QSFP28 ports the X2-2000G provides aggregation, replication, powerful filtering with up to 6000 non-conflicting rules, all in a single 1U rack unit.



## KEY FEATURES



### AGGREGATION

Aggregate traffic coming from multiple incoming links.



### REPLICATION

Replicate traffic to multiple monitoring and security tools.



### FILTERING

Only send actionable data to each of the connected tools.



### LOAD BALANCING

Balance traffic over multiple monitoring and security tools.



### PACKET SLICING

Remove payload that is irrelevant to network monitoring and security analysis, conserving disk space and load on capture devices.



### TIMESTAMPING

Leverage accurate timing information for accurate forensic analysis, and legal and criminal investigation.



### GTP IP FILTERING

Filter by IP in GTP sessions based on information contained in the data stream, identifying source and destination.



### ERSPAN TUNNELING & DE-TUNNELING

Integrate the X2-2000G as a single, centralized point for ERSPAN tunneling and de-tunneling in a monitoring system based on data ERSPAN encapsulation.



### PACKET DEDUPLICATION

Optimize network efficiency and traffic storage eliminating redundant packet copies.

## USE CASES

- Balance traffic over multiple monitoring and security tools: allows incoming traffic to be distributed evenly and dynamically across multiple output ports.
- Replicate traffic to multiple monitoring and security tools: outputs copies of incoming traffic to multiple output ports.
- Aggregate multiple traffic streams into higher speed links.
- Filter specific parts of the traffic based on a wide array of allow and drop rules to ensure the appropriate traffic is sent to the appropriate tools.
- Optimize bandwidth & storage utilization and ensure security compliance by removing payload (packet slicing) irrelevant for network analysis.
- Remove packet duplicates and provide a substantial reduction in data traffic volume.
- Filter on IP-based communication in GTP sessions.
- Improve quality of latency analysis with accurate timestamps for every network packet.

# TECHNICAL SPECIFICATIONS

## CONNECTORS

48 x SFP28 ports  
8 x QSFP28 ports  
1 x RJ45 management port  
1 x RJ45 console port  
1 x USB 2.0 port

## DIMENSIONS (WxDxH)

440 x 460 x 44 mm — 17.32 x 18.11 x 1.73 in

## INCLUDED ACCESSORIES

2 x 850 W, 80+ Platinum, 100–240 VAC, 50–60 Hz PSUs  
2 x C13 AC power cords — 1 x RJ45 to serial port adapter  
1 x Rack mounting kit

## LEDS

1 x System status  
1 x Fan status  
1 x PSU status

## WEIGHT

8.4 kg — 18.5 lbs

## COMPLIANCE

RoHS  
CE  
FCC

## HIGHLIGHTS

- Aggregation, replication, L2-L4 filtering, VLAN tagging and stripping, MPLS stripping and load balancing (any-to-any, any-to-many, many-to-many)
- Up to 6000 port-to-port filters
- Local and remote management (CLI, SSH, GUI, SNMP, Syslog, TACACS+ / RADIUS authentication)
- Centralized authentication via Profitap Supervisor (local users, TACACS+, RADIUS)
- Configuration automation with Ansible
- RESTful API support
- Flexible role-based management access
- In-line mode and in-line tool sharing
- PTPv2 time synchronization
- Supports 1G, 10G, 25G, 40G, 100G
- Supports 4 x 10G, 4 x 25G, and 2 x 50G splits on QSFP28 ports via fanout cables
- Redundant, hot-swappable PSUs and fan modules

# ORDER REFERENCES

Base licenses cover the following key features: Aggregation, Replication, L2-L4 filtering, GTP IP filtering, Load balancing, Packet slicing, Timestamping (ERSPAN), VLAN tagging, VLAN stripping, VXLAN de-tunneling, GRE de-tunneling and ERSPAN tunneling and de-tunneling.

## BASE LICENSE

X2-2000G-244

X2-2000G-488

X2-2000G-UNLK

## DESCRIPTION

X2-2000G NPB with activation license, 24 x 1(ports 1-16)/10/25G SFP28, 4 x 40/100G QSFP28

X2-2000G NPB with activation license, 48 x 1(ports 1-16)/10/25G SFP28, 8 x 40/100G QSFP28

HD NPB, upgrade from half port to full port license

## ADVANCED LICENSABLE FEATURES

X2-2000G-LIC-D

## DESCRIPTION

De-duplication license

## WARRANTY AND MAINTENANCE

X2-2000G-WAR-1YR

X2-MAIN-1YR

## DESCRIPTION

X2-2000G extended warranty — 1 year

X2-2000G extended maintenance — 1 year (software updates, professional support)



