

# X3 NETWORK PACKET BROKER

## ADVANCED TRAFFIC INTELLIGENCE FOR SECURITY AND PERFORMANCE ANALYSIS

The X3 Network Packet Broker offloads network security and performance monitoring tools by taking over advanced traffic optimization and shaping tasks, such as passive TLS Decryption, Data Masking, Packet Deduplication, NetFlow export and more.

By deploying an X3 Network Packet Broker, network blind spots can be eliminated, and network traffic handled by the device is shaped into actionable data.

### SSL/TLS Decryption

The X3 Network Packet Broker supports passive decryption of TLS 1.2 and below. The TLS decryption feature reduces blindspots that exist with encrypted traffic. Decrypted traffic can be sent to an out-of-band security or analysis appliance.

### Data Masking

Decrypted traffic can expose confidential data to network engineers and analysts, resulting in security or privacy implications. The X3-Series can obfuscate sensitive data to comply with regulations and prevent data leakages. Data masking enables complete visibility into decrypted data without the risk of exposing sensitive data.

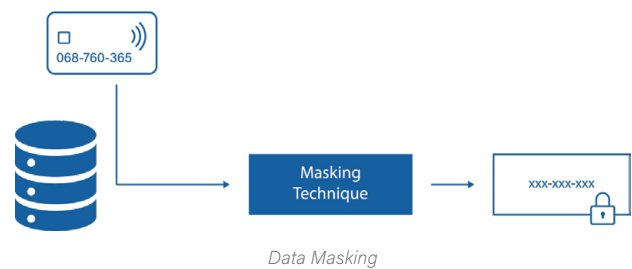
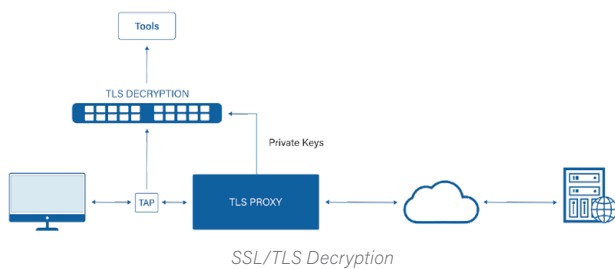
### Deduplication

With TAPs and mirror ports at multiple points inside the network, the same network data may be captured multiple times, causing duplicate packets inside the monitoring system. Sending unnecessary duplicate packets to analysis and security tools significantly impacts their performance. The X3-Series can dynamically discard duplicated packets before they are sent out. Thanks to the large time window for packet comparison and extensive configurability of the deduplication feature, the X3-Series can mitigate multiple sources of duplicate packets, like network design flaws or switch SPAN ports.



### X3 NETWORK PACKET BROKER FEATURE HIGHLIGHTS

- Passive SSL/TLS decryption SSL 3.0, TLS 1.0 – TLS 1.2
- Data masking
- Packet deduplication
- TCP packet reordering and fragments re-assembling
- Full tunneling capability
- Packet Slicing
- IMSI Filtering
- Timestamping
- Export NetFlow V5/V9
- L2-L7 Filtering, DPI
- Load Balancing
- Any-to-any Replication and Aggregation
- Microburst Protection



## ORDER REFERENCES

ORDER REFERENCE	TYPE	PORTS	POWER SUPPLY
X3-880G-AC	Advanced Network Packet Broker	48 x 1G/10G, 4 x 40G/100G	100–240 VAC
X3-880G-DC	Advanced Network Packet Broker	48 x 1G/10G, 4 x 40G/100G	30–72 VDC
X3-440G-AC	Advanced Network Packet Broker	24 x 1G/10G, 2 x 40G/100G	100–240 VAC
X3-440G-DC	Advanced Network Packet Broker	24 x 1G/10G, 2 x 40G/100G	30–72 VDC

# TECHNICAL SPECIFICATIONS

<b>Management Interfaces</b>	1 x RS232 (RJ45), 1 x Gigabit Ethernet (RJ45)
<b>Management Method</b>	Local CLI, SSH, SNMPv2/v3, HTTP/HTTPS
<b>Dimensions (WxDxH)</b>	446 x 558 x 44 mm — 17.56 x 21.97 x 1.73 in
<b>Weight</b>	13.2 kg — 29.1 lb
<b>Power Consumption</b>	Max. 440 W
<b>MTBF</b>	161,485 hours
<b>Power Supply</b>	100–240 VAC or 36–72 VDC
<b>Power Redundancy</b>	Power module 1+1, hot swappable
<b>Fan</b>	Fan module 4+1, hot swappable
<b>Operating Temperature</b>	0–40°C — 32–104°F
<b>Relative Humidity</b>	10–90% non-condensing
<b>FEATURE</b>	
<b>Supported Protocols</b>	Ethernet, IP, ICMP, TCP/UDP/SCTP, BGP/OSPF/ISIS
<b>Supported Encapsulations</b>	VLAN, VXLAN, MPLS, IP, GTP, GRE, L2TP/PPTP, IPSec (AH, ESP)
<b>Aggregation / Replication</b>	Any-to-any
<b>Load Balancing</b>	Hash based, weighted
<b>MATCH FILTER</b>	
<b>Wildcard N Tuple Rules</b>	IPv4/IPv6, port, MAC, EtherType, MPLS Label, VLAN, VNI, TCP Flag, DSCP, Size, Fragment
<b>Deep Packet Inspection</b>	Regex
<b>SSL / TLS DECRYPTION</b>	
	Passive
<b>Supported SSL / TLS Versions</b>	SSL 3.0, TLS 1.0 – TLS 1.2
<b>Asymmetric Keys</b>	RSA, ECDH
<b>Symmetric Keys</b>	AES, RC4, 3DES
<b>Hashing Algorithms</b>	SHA, MD5
<b>Maximum Concurrent Sessions</b>	300,000
<b>Maximum TPS</b>	30,000
<b>Throughput</b>	Up to 30 Gbps
<b>PACKET DEDUPLICATION</b>	
<b>Max. Window</b>	1 second
<b>Max. Throughput</b>	150 Gbps
<b>Signature Customization</b>	MAC, TCP flags, TTL, L2, DSCP, Port