IXIA VISION EDGE 10S (E10S) NETWORK PACKET BROKER

The need for real-time visibility into network data has never been greater. Being able to know how applications and services are performing is no longer a nice to have. It is also imperative to have the ability to quickly quantify threats from within and outside of your network.

Ixia's new Vision Edge 10S (E10S) network packet brokers are perfect for remote site installations with access to network and analytics tools in the same location. It is equally suitable for data centers that aggregate and send data across LAN or WAN to central NOC/SOC for real-time network visibility operations.

KEY FEATURES:

• **High density multi-speed network packet broker** that is designed for deployment in racks to aggregate traffic

• **Exceptionally feature rich** stand-alone packet broker that supports 1G to 10G networks

• **Easy-to-use web-interface** allows you to focus on security rather than configuration

• **Comprehensive wizards** that makes deployment extremely easy

• **Space efficient** 1RU design saves rack space in your data center

Use cases

• Single site deployment with network and network and security analytics tools

• In a distributed network, Vision Edge can be used with Vision ONE with direct connect, so tools at the data center can be used for multiple branch monitoring and security

• With other Vision packet brokers to leverage more advanced packet processing capabilities

HIGHLIGHTS

• High density 1U platform

• Supports 1G to 10G networks

• Supports scaling your security infrastructure in more manageable steps

• Fully featured with Ixia's robust NetStack capabilities：

• Aggregation, replication, filtering and load balancing

• Ixia's patented filter compiler and three stages of filtering for one of a kind flexibility in managing network and tool traffic profile

• Up to 40 Gbps line rate packet processing with PacketStack

• Software defined platform that offers new features without platform change

Figure 1: E10S Front

Figure 2: E10S Front

PRODUCT CAPABILITIES

NETSTACK CAPABILITIES	
The Ixia gold-standard baseline filtering functionality for network packet brokers	
Three Stages of Filtering – filter at ingress ports, in the middle and at egress ports for the maximum flexibility in designing complex Boolean logic without the need of using extra ports for loopback	**Dynamic Filter Compiler** – patented technology that resolves rule overlaps automatically and hence makes configuration simple and eliminates human errors
Aggregation – consolidate incoming traffic to optimize port usage and simplify filter logic. Support 1:1, 1:Many, Many:1 and Many:Many traffic mapping	**Replication** – at the ingress port as well as at the dynamic filter. Replication at the ingress allows the same input to connect to multiple dynamic filters. Replication at the dynamic filter allows multiple tools to get identical traffic from the same dynamic filter
Load-balancing – sophisticatedly distributes traffic across tools ports for monitoring in a session aware manner to preserve traffic integrity and also to maximize up-time with fail-over protection	

PACKETSTACK CAPABILITIES

Full, line rate intelligent packet processing at 40Gbps. Modify every packet at line-rate using any combination of Ixia's PacketStack (AFM) capabilities

Flexibly assign up to 40Gbps total processing capacity to one or more ports in 10Gbps increments

Deduplication 40Gbps capacity (10G increments)		**Header Stripping** Includes VLAN, FabricPath, VNTag, GTP, MPLS, VxLAN, L2GRE, ERSPAN	
Packet Trimming (Slicing) To modify packet slice or retain only relevant		**Timestamping** Timestamping (NTP)	
Extended Burst Protection 1G burst protection		**Tunneling** L2GRE based tunneling over WAN/LAN (origination and termination)	
Data Masking Protect PII and sensitive data with an offset			

VISION E10S HIGHLIGHTS

System and Performance

- 1U chassis, fixed form with hot swap redundant power and fans
- Available in AC or DC models
- Capable of (2) speeds - 1G, 10G
- (48) 1G or (48) 10G SFP+ ports
- Layer 2 forwarding of 480Gbps

Management

- Local, RADIUS and TACACS+ support
- Granular access control features
- Event monitoring and logging
- Syslog
- IT automation with REST API
- SNMP v1, v2 and v3 support

OPERATING SPECIFICATIONS

VISION E10S

Power

- Redundant (2) hot swap AC power supplies
- Redundant (2) hot swap DC power supplies
- AC Input voltage：90 to 260 VAC @ 50-60 Hz, 3A, 260W max (each PSU)
- DC Input voltage：-44 to -70 VDC, 6A
- 3 fans in 2 sets, each set rated at 12 VDC, 1.2A, 27.45-30.5 CFM)

Physical Size, Weight

- WxLxH：17.5W x 24.5L x 1.75H inches
- Weight：30 lbs with two installed PSU
- Operating Temperature：0 to 50 degrees Celsius
- Operating Humidity：5% to 95% non-condensing
- Country of Origin：USA

VISION E10S REGULATORY, SAFETY

Regulatory

- CB, EN 60950, UL/CUL, CE Class A

Safety

- UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements) EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

Emissions

- EN 55032:2012/AC:2013, Class A, CFR 47, FCC Part 15B, Canada: ICES-003: Issue 6:2016, AS/NZ CISPR 32:2015 Class A, KCC – Korea

Immunity
• EN 55024:2010, EN 61000-3-2:201, EN 61000-3-3:2013, EN 61000-4-2, EN 61000-4-3, EN 61000- 4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
Environmental
• The RoHS Directive 2011/65/EU, 2006/1907/EC (REACH)

ORDERING INFORMATION

VISION E10S SYSTEM	
HARDWARE	DESCRIPTION
SYS-E10S-16P-AC	Vision E10 System AC Chassis with fixed (48) 1G/10G; Includes license for (16) 1G/10G ports and 20Gbps of PacketStack (1G Burst Protection, Masking, Timestamp, Packet Trimming, Add Trailer); Contains two AC power supplies and fan units. Optional ports and feature licenses available
SYS-E10S-16P-DC	Vision E10 System DC Chassis with fixed (48) 1G/10G; Includes license for (16) 1G/10G ports and 20Gbps of PacketStack (1G Burst Protection, Masking, Timestamp, Packet Trimming, Add Trailer); Contains two DC power supplies and fan units. Optional ports and feature licenses available

VISION E10S PORT LICENSES	
PART NUMBER	DESCRIPTION
LIC-E10S-16P	Vision E10S, Port license for an additional (16) 1G/10G ports; Requires previous or adjunct purchase of SYS-E10S-16P-AC or SYS-E10S-16P-DC
LIC-E10S-4P	Vision E10S, Port license for an additional (4) 1G/10G ports; Requires previous or adjunct purchase of SYS-E10S-16P-AC or SYS-E10S-16P-DC

VISION E10S PACKETSTACK FEATURES	
PART NUMBER	DESCRIPTION
LIC-E10S-PS-10G	Vision E10S, Add 10Gbps PacketStack (1G Burst Protection, Masking, Timestamp, Packet Trimming, Add Trailer), Max (2) license per system
LIC-E10S-DDUP	Vision E10S, Enables PacketStack Deduplication feature, licensed per system; Up to 40Gbps supported if PacketStack is licensed at 40Gbps
LIC-E10S-STRP	Vision E10S, Enables PacketStack Header stripping feature, licensed per system; Up to 40Gbps is supported if PacketStack is licensed at 40Gbps
LIC-E10S-TUNL	Vision E10S, Enables PacketStack Tunneling feature, licensed per system, up to 40Gbps

VISION E10S SPARE	
PART NUMBER	DESCRIPTION
SYS-E10S-SPARE-AC	Vision E10S System AC Chassis with no ports or features enabled; Requires short term license to be installed to operate when required; Contains two AC power supplies and fan units. PRE-REQUISITES: Cold spare license LIC- E10S-SPARE
SYS-E10S-SPARE-DC	Vision E10S System DC Chassis with no ports or features enabled; Requires short term license to be installed to operate when required; Contains two DC power supplies and fan units. PRE-REQUISITES: Cold spare license LIC- E10S-SPARE
LIC-E10S-SPARE	Vision E10S, Cold spare system license; NOTE: Includes max configuration; Activation includes all ports, and features. Short term activation only to operate Vision E10S cold spare system (SYS-E10S-SPARE-AC or SYS- E10S-SPARE-DC). Must purchase Essential/Enterprise support.

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