

IXIA VISION EDGE 100 (E100) NETWORK PACKET BROKER

DATA SHEET

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.

Current reality is that compute, storage and networks are now software defined and built by the rack and containers. And, in keeping with demand to deliver lower operating expense and offering the best-of-breed in software-defined flexibility, visibility is lost at every layer as installations get dense and traffic moves east-west within a rack and north-south between racks.

More servers, more switching layers, more virtual platform translate to more visibility blind spots.

Ixia's new Vision Edge 40 (E40) and Vision Edge 100 (E100) network packet brokers are designed to provide rack-level visibility through a solution that allows seamless integration into existing hybrid SDN architectures, offering true flexible multi-speed capability, and a comprehensive feature set for the versatility to adapt to the future, ensuring your Security Fabric's strength, all while offering a compelling total cost of ownership.

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 10G to 100G 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

HIGHLIGHTS

- High density 1U platform for visibility per rack service
- Supports 10G to 100G 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
- Software defined platform that offers new features without platform change



Figure 1: E100








Figure 2: E100 Back

USE CASES

For top-of-the-rack visibility for a single site deployment with network and tools
 In a leaf-spine architecture, aggregating across multiple racks in a smaller or microscale data center
 In a high-availability configuration, when used with Ixia's bypass switches, for a single data center

PRODUCT CAPABILITIES

NETSTACK CAPABILITIES	
The Ixia gold-standard baseline filtering functionality for network packet brokers	
 <p>Three Stages of Filtering – filter at ingress ports, in the middle and at egress ports with</p>	 <p>Dynamic Filter Compiler – patented technology makes configuration simple and eliminates human errors in typing ACL-like rules to find traffic of interest</p>
 <p>Aggregation – consolidate incoming traffic to optimize port usage and simplify filter logic. Support 1:1, Many:1 and many:many traffic streams when combined with replication</p>	 <p>Replication – at the ingress port as well as at the dynamic filter. Replication at the ingress allows the application of multiple dynamic filters to the same traffic stream. Replication at the dynamic filtering allows multiple tools to be connected to a given dynamic filter so the same traffic is sent to multiple tools. You don't have to setup complex logic or loop back.</p>
 <p>Load-balancing – sophisticatedly distributes traffic across tools ports for monitoring to maximize up-time and ensure that no critical data is lost</p>	
E100 HIGHLIGHTS	
<ul style="list-style-type: none"> • Capable of (5) speeds - 10G, 25G, 40G, 50G and 100G networks • (32) QSFP28 front panel ports • Supports QSFP28 (for 100G) or QSFP+ (for 40G) transceivers • Each port is capable of any of the 5 speeds, set independently • Massive density with (128) 10G ports in 1U size • Hot swap redundant power supplies and fans • Available in AC and DC model 	

PORT CONFIGURATION AND DENSITY

System	10G	25G*	40G	50G*	100G
Ixia Vision E100	128	128	32	64	32
Max # of ports					
*Future version					

OPERATING SPECIFICATIONS

IXIA VISION E100	
<p>Power</p> <ul style="list-style-type: none"> • 2 redundant hot swap AC power supplies • 2 redundant hot swap -48V DC power supplies • Input voltage: 90 to 264 VAC @ 50-60 Hz • Input voltage: -36 to -72 VDC • Max Power: 350 W without pluggable optics • Typical Power: 310 W without pluggable optics 	<p>Physical Size, Weight and Environmental</p> <ul style="list-style-type: none"> • WxDxH: 17.3 x 20.3 x 1.71 inches • Weight: 23 lbs with two installed PSU • Regulatory and compliance information will be updated and included here in the future • Operating Temperature: 0 to 45 degrees Celsius • Operating Humidity: 5% to 95% non-condensing • Country of Origin: Taiwan • Country of shipment to End customer: USA

ORDERING INFORMATION

IXIA VISION E100 SYSTEM	
HARDWARE BUNDLE PART NUMBER	DESCRIPTION
SYS-V-E100-8P-100G-AC	Ixia Vision E100 System AC Chassis with fixed (32) QSFP28 100GE ports; Licensed for (8) ports at 10G, 40G, 100G
SYS-V-E100-8P-100G-DC	Ixia Vision E100 System DC Chassis with fixed (32) QSFP28 100GE ports; Licensed for (8) ports at 10G, 40G, 100G
SYS-V-E100-32P-40G-AC	Ixia Vision E100 System AC Chassis with fixed (32) QSFP28 100GE ports; Licensed for (32) port at 40G ports or (128) at 10G
SYS-V-E100-32P-40G-DC	Ixia Vision E100 System DC Chassis with fixed (32) QSFP28 100GE ports; Licensed for (32) port at 40G ports or (128) at 10G

IXIA VISION E100 PORT AND FEATURES	
HARDWARE BUNDLE PART NUMBER	DESCRIPTION
LIC-V-E100-ADD-4P	Ixia Vision E100 Port license for an additional (4) ports
LIC-V-E100-ADD-24P	Ixia Vision E100 Port license for an additional (24) ports
LIC-V-E100-40G-UPG	Ixia Vision E100 Upgrade SYS-V-E100-32P-40G-AC/DC to 100G; Includes port license for all (32) ports

IXIA VISION E100 SPARE AND MODULES	
HARDWARE PART NUMBER	DESCRIPTION
SYS-V-E100-SPARE-AC	Ixia Vision E100 System AC Chassis with no ports or features enabled; Requires short term license to be installed to operate when required; PREREQUISITES: Cold space license LIC-V-E100-SPARE for operation
SYS-V-E100-SPARE-DC	Ixia Vision E100 System DC Chassis with no ports or features enabled; Requires short term license to be installed to operate when required; PREREQUISITES: Cold space license LIC-V-E100-SPARE for operation
LIC-V-E100-SPARE	Ixia Vision E100, Cold spare system license; NOTE: Includes max configuration; Activation includes all ports, all inline and Ixia Fabric Controller; Short term activation only to operate Vision E40 cold spare system
MOD-V-E100-AC-PWR	Ixia Vision E100 System, (1) AC power module, for the Vision E100 chassis
MOD-V-E100-DC-PWR	Ixia Vision E100 System, (1) DC power module, for the Vision E100 chassis
MOD-V-E100-FAN-ASSY	Ixia Vision E100, (1) FAN module, for the Vision E100 chassis

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