

# IXIA VISION EDGE 40 (E40) 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 40G 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 40G 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: E40








Figure 2: E40 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 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
- In a high-availability configuration, when used with Ixia's bypass switches, for a single data center
- With other Vision packet brokers to leverage more advanced packet processing capabilities

PRODUCT CAPABILITIES

IXIA FABRIC CONTROLLER SUPPORT	
<ul style="list-style-type: none"> <li>• Ixia Fabric Controller offers single pane of glass management for your network packet brokers. All NPBs can be managed in a single interface, as a single visibility and security fabric</li> <li>• Allows for Vision Edge 40 to Vision Edge 40 and Vision ONE to Vision Edge 40 seamless peering</li> <li>• Support for direct connect</li> </ul>	
NETSTACK CAPABILITIES	
The Ixia gold-standard baseline filtering functionality for network packet brokers	
 <p><b>Three Stages of Filtering</b> – filter at ingress ports, in the middle and at egress ports with</p>	 <p><b>Dynamic Filter Compiler</b> – patented technology makes configuration simple and eliminates human errors in typing ACL-like rules to find traffic of interest</p>
 <p><b>Aggregation</b> – 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><b>Replication</b> – 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><b>Load-balancing</b> – sophisticatedly distributes traffic across tools ports for monitoring to maximize up-time and ensure that no critical data is lost</p>	

**E40 HIGHLIGHTS**

- Capable of (3) speeds - 1G, 10G and 40G networks
- (48) 1G or (48) 10G SFP+ ports
- (6) 40G QSFP+ ports
- Up to (72) 10G ports when using 40G ports with 4x10G break-out
- Hot swap redundant power supplies and fans
- Available in AC and DC models
- Double your ports on 10G – use RX for Network and TX for Tool port on single port
- Extra 40G ports by combining (fan-in) of (4) 10G ports grouped to support 40G natively

**PORT CONFIGURATION AND DENSITY**

System	10G	40G
Ixia Vision E40 – Standard Ports	48	6
Max # of Ports	72	6

**OPERATING SPECIFICATIONS**

**Power**

- 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: -48 to -72 VDC
- Input current: Max 6A @ 100/120 VAC
- Input current: Max 3A @ 200/240 VAC
- Input current: Max 10A @ -72 VDC
- Max Power: 282 W without pluggable optics

**Physical Size, Weight and Environmental**

- WxDxH: 17.4 x 18.6 x 1.71 inches
- Weight: 19.72 lbs with two installed PSU
- Regulatory and compliance information will be updated and included here in the future
- Operating Temperature: 0 to 40 degrees Celsius
- Operating Humidity: 5% to 95% non-condensing
- Country of Origin: Taiwan
- Country of shipment to End customer: USA

ORDERING INFORMATION

IXIA VISION E40 SYSTEM	
HARDWARE BUNDLE PART NUMBER	DESCRIPTION
SYS-V-E40-24P-AC	Ixia Vision E40 System AC Chassis with fixed (48) 1G/10G and (6) 40G ports; Includes license for (24) 1G/10G or (6) 40G ports or any 1G/10G or 40G combination
SYS-V-E40-24P-DC	Ixia Vision E40 System DC Chassis with fixed (48) 1G/10G and (6) 40G ports; Includes license for (24) 1G/10G or (6) 40G ports or any 1G/10G or 40G combination

IXIA VISION E40 PORT AND FEATURES	
HARDWARE BUNDLE PART NUMBER	DESCRIPTION
LIC-V-E40-ADD-24P	Ixia Vision E40, Port license for an additional (24) 1G/10G or (6) 40G ports or any combination of 1G/10G or 40G combination.
LIC-V-E40-IFC	Ixia Vision E40, Enables Ixia fabric controller (IFC) for direct connect to Vision ONE or Vision 7300/3; licensed per system

IXIA VISION E40 SPARE AND MODULES	
HARDWARE PART NUMBER	DESCRIPTION
SYS-V-E40-SPARE-AC	Ixia Vision E40 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-E40-SPARE for operation
SYS-V-E40-SPARE-DC	Ixia Vision E40 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-E40-SPARE for operation

LIC-V-E40-SPARE	Ixia Vision E40, 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-E40-AC-PWR	Ixia Vision E40 System, (1) AC power module, for the Vision E40 chassis
MOD-V-E40-DC-PWR	Ixia Vision E40 System, (1) DC power module, for the Vision E40 chassis
MOD-V-E40-FAN-ASSY	Ixia Vision E40, (1) FAN module, for the Vision E40 chassis

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