

IXIA VISION 5288 & 5293 NETWORK PACKET BROKER

HIGH-DENSITY 100GE/40GE/10GE NETWORK PACKET BROKER

Advancements in virtualization and server technologies have made 10GE commonplace in large enterprise data centers, and the transition to 100GE or 40GE is not far behind. The Ixia Vision 5288 provides up to 64 10GE ports, 16 40GE ports, or 4 100GE CFP ports in a compact 2U form factor. The Ixia Vision 5288 aggregates data from multiple visibility points in a network and ensures the delivery of critical network traffic to the essential monitoring tools.

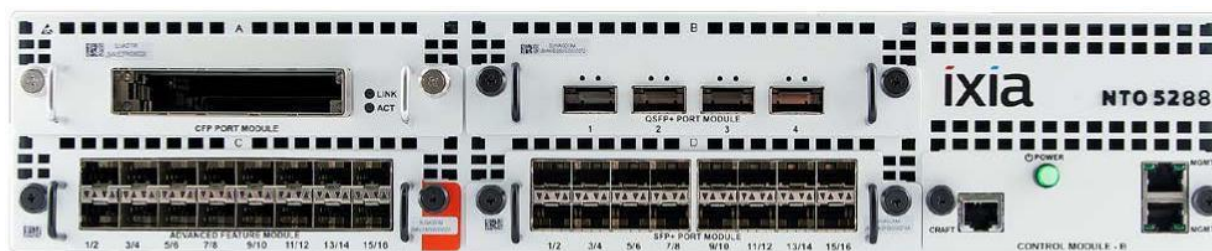
The Ixia Vision 5288 helps large enterprises monitor an increasing number of 1GE, 10GE, 40GE, and 100GE ports with their existing monitoring tools. By enhancing the performance of the network and security monitoring tools, companies can improve network performance, increase operation team productivity and reduce the risk of network outages.

The Ixia Vision 5288 is designed for high availability with redundant management ports, power supplies and fan trays. It's an ideal solution for enterprise data centers with increased bandwidth requirements due to higher processor density, virtualization and SANs.

HIGHLIGHTS

Port Flexibility

- Port flexibility with up to 64 ports available at 1GE, 10GE; 16 ports at 40GE; or 4 CFP ports at 100GE
- Ingress/egress port programmability
- Software port licensing
- Timestamping (local, NTP, GPS)*
- Burst Protection*
- Port tagging
- Monitoring tool port load balancing (up to 32 ports)
- Protocol stripping (GTP, MPLS, VLAN, VNTAG)
- Packet trimming
- Packet deduplication












The Ixia Vision 5293 is the NEBS Level 3 Certified model of the 5288 Network Packet Broker.



PRODUCT CAPABILITIES

VISION 5288 & 5293 FEATURES	
<ul style="list-style-type: none"> • Redundant, hot-swappable power supply/fan modules • -48V DC or 120-240VAC power input • Front to back air flow • Redundant management ports • Craft interface for out-of-band • 1GE, 10GE, 40GE, 100GE support • Non-blocking architecture; 640Gbps total bandwidth • Full line-rate across all ports with filtering enabled 	<ul style="list-style-type: none"> • Port reconfiguration with no performance impact • Double-Your-Ports for Advanced (AFM) Ports • Up to 64 1GE Copper (SFP) • Up to 64 1GE (SFP) • Up to 64 10GE (SFP+) • Up to 16 40GE (QSFP+) • Up to 4 100GE (CFP)

NETSTACK CAPABILITIES	
<p>The Ixia gold-standard baseline filtering functionality for network packet brokers</p>	
<p>Filtering</p> <ul style="list-style-type: none"> • Centralized filter templates • Custom dynamic filtering • Overlapping filter engine • Filter parameters (Layer 2-4) • MAC source/destination addresses • VLAN and EtherTypes • IP protocol and DSCP/TOS • Source/destination IP (IPv4/IPv6) • UDP, TCP ports 	
 <p>Aggregation – consolidate incoming traffic to optimize port usage and simplify filter logic. Support 1:1, 1:Many, 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>Source Port Labelling (VLAN Tagging and Untagging) VLAN tag management (ingress tagging and egress stripping)</p>	 <p>Load-balancing Monitoring tool port load balancing (up to 32 ports)</p>

PACKETSTACK CAPABILITIES	
Intelligent packet filtering, manipulation and transport *available on PacketStack (AFM) modules	
 <p>Deduplication 160Gbps per module and 640Gbps per chassis</p>	 <p>Header Stripping Fabric Path Stripping; VNTag Stripping; GTP, MPLS, VXLAN, L2GRE/NVGRE, and ERSPAN Stripping; Trailer Stripping</p>
 <p>Packet Trimming (Slicing) To modify packet slice or retain only relevant data</p>	 <p>Timestamping Timestamping (local, NTP, GPS)*</p>
 <p>Extended Burst Protection 1G tool port to buffer up to 200 MB of traffic; Add trailer with original packet length: Trailer adds the current packet length information before trimming</p>	

SPECIFICATIONS

GENERAL SPECIFICATIONS	
<p>Included Accessories</p> <ul style="list-style-type: none"> • AC power cord • USB flash drive with activation license key • Front rack mount kit 	<p>Management</p> <ul style="list-style-type: none"> • SNMP v1, v2, v3 support • Local, RADIUS, and TACACS+ support (members and groups) • Granular access control features • Event logging • Syslog • IT automation control (RESTful API) • Dual IP-based management ports (RJ45 10/100/1000)

PHYSICAL SPECIFICATIONS

Size and Weight

- 2U high rack mountable enclosure
- Dimensions: 17.5W x 19.125L x 3.5H (inches)
- Weight: 35.0 lb (16 kg)

DC Power for Ixia Vision 5288 Option

- Operating input voltage: 36 to 75 VDC
- Maximum operating input current: 11.46A @ 48 VDC, 550W
- Nominal current: 5.41A @ 48 VDC, 260W
- Heat/power dissipation for system with all 64 ports on the front panel at 100% traffic load: Nominally 260W/887 BTU/hour

AC Power for Ixia Vision 5288 Option

- Input AC voltage: 90-240 VAC RMS auto-switching
- Frequency: 50-60Hz
- Nominal power requirement: 2.36A @ 110 VAC, 260W
- Maximum power requirement: 5A @ 110 VAC, 550W
- Heat/power dissipation for system with all 64 ports on the front panel at 100% traffic load: nominally 260W/887 BTU/hour

OPERATING SPECIFICATIONS

Temperature

- Operating: 5°C to 40°C
- Short-term*: -5°C to 55°C (*not to exceed 96 consecutive hours)
- Short-term* with fan failure: -5°C to 40°C (*not to exceed 96 consecutive hours)

Humidity

- Operating: 5% to 85%, (non-condensing)
- Short-term*: 5% to 90% (non-condensing, *not to exceed 96 hours)

SAFETY

	5288	5293 NEBS
North American	UL 60950-1, 2nd Edition CSA C22.2 No. 60950-1, 2nd Edition	UL 60950-1, 2nd Edition CSA C22.2 No. 60950-1, 2nd Edition GR-1089-CORE, Issue 6, May 2011
European	EN60950-1	EN60950-1
International	CB Scheme: IEC 60950-1:2005 1 st Ed	CB Scheme: IEC 60950-1:2nd Edition

EMC		
	5288	5293 NEBS
North American	FCC part 15, Class A (USA) ICES-003 Issue 4, Class A (Canada)	FCC part 15, Class A (USA) ICES-003 Issue 4, Class A (Canada) GR-1089-CORE, Issue 6, May 2011
European EMC	EN55022 2006 Class A (Emissions) EN55024 1998 w/A2 (Immunity) EN61000-3- 2:2006(Harmonics) EN61000-3-3 1995 w/A2(Flicker)	EN 55022:2006 +A1:2007 (Emissions) EN 55024:1998 +A1:2001 +A2:2003 (Immunity) EN 61000-3-2:2006 +A2:2009 (Harmonics) EN 61000-3-3:2008 (Flicker) ETSI EN 300 386:2005-4
IEC/International	IEC/EN 61000-4-2:2001 Electrostatic Discharge Immunity IEC/EN 61000-4-3:2006 Radiated Immunity IEC/EN 61000-4-4:2004 Transient/Burst Immunity EN61000-3-3 1995 w/A2(Flicker) IEC/EN 61000-4-5:2005 Surge Immunity IEC/EN 61000-4-6:2007 Conducted Radio Frequency Immunity IEC/EN 61000-4-11:2004 Voltage Dips, Interruptions and Variations RoHS Compliant	IEC/EN 61000-4-2:2009 Electrostatic Discharge Immunity

ORDERING INFORMATION

IXIA VISION 5288 SYSTEM	
SYS-5288-CORE	Ixia Vision 5288 base system with no ports or licenses
SYS5288-60PG-4PX	Ixia Vision 5288 base system - 60 1G and 4 10G ports enabled (991-0202)
SYS5288-24PX	Ixia Vision 5288 base system - with 24 10G port licenses enabled (991-0209)
SYS5288-64PX	Ixia Vision 5288 base system - with all 64 10G ports enabled (991-0201)
SYS5288PS16X32PX	Ixia Vision 5288 with 32 1/10G port licenses enabled - with 160Gbps PacketStack (AFM) capability (991-0214)
SYS5288PS16X48PX	Ixia Vision 5288 with 48 1/10G port licenses enabled - with 160Gbps PacketStack (AFM) capability (991-0215)
SYS5288PS16X64PX	Ixia Vision 5288 with 64 1/10G port licenses enabled - with 160Gbps PacketStack (AFM) capability (991-0216)

IXIA VISION 5293 SYSTEM	
SYS-5293-STD	Ixia Vision 5293 (NEBS) - base system with no ports or licenses
SYS5293-64PX	Ixia Vision 5293 (NEBS) base system – with 64 1G/10G / 16 40G QSFP+, all ports enabled (991-0027)
SYS5293-60PG-4PX	Ixia Vision 5293 (NEBS) base system - 60 1G SFP ports, and 4 10G SFP/SFP+ ports, all ports enabled (991-0025)
SYS5293-24PX	Ixia Vision 5293 (NEBS) base system - with 24 10G port licenses enabled (991-0080)

IXIA VISION 5288 OPTIONS, UPGRADES & ACCESSORIES	
M528X-ACPS	Ixia Vision 5288 and GSC 7433 - AC power module (1) (991-3042)
M528X-DCPS	Ixia Vision 5288 and GSC 7433 - DC power module (1) (991-3043)
M5288-FAN	Ixia Vision 5288 - fan module unit (1) (991-2029)

M5288-GPS	Ixia Vision 5288 GPS management module (992-0102)
ACC-5200-BE19	Ixia Vision 5200 and GSC 7433 series chassis accessory - 4-Post 19in Bracket Extender (991-2027)
ACC-5200-BE23	Ixia Vision 5200 and GSC 7433 series chassis accessory - 4-Post 23in Bracket Extender (991-2028)

PACKETSTACK MODULE	
M5200-PS-8PX	Ixia Vision 5200 series - 8-port Module to deliver PacketStack (AFM) capabilities (992-0108)
M5200-PS-16PX	Ixia Vision 5200 series - 16-port Module to deliver PacketStack (AFM) capabilities (992-0109)
LIC-5200-PS-16P-U	Ixia Vision 5200 series license - PacketStack capabilities (AFM) upgrade from 8 to 16 ports. (993-0243)

IXIA VISION 5288 OPTIONS, UPGRADES & ACCESSORIES	
M529X-ACPS	Ixia Vision 5293 and GSC 7433 - AC power module (1) (991-3002)
M529X-DCPS	Ixia Vision 5293 and GSC 7433 - DC power module (1) (991-3003)
M529X-FAN	Ixia Vision 5293 - fan module unit (1) (991-2005)
ACC-5200-BE19	Ixia Vision 5200 and GSC 7433 series chassis accessory - 4-Post 19in Bracket Extender (991-2027)
ACC-5200-BE23	Ixia Vision 5200 and GSC 7433 series chassis accessory - 4-Post 23in Bracket Extender (991-2028)
M5293-4P4X	Ixia Vision 5293 - 4-port Module to deliver PacketStack (AFM) capabilities (992-0011)
M5293-16PX	Ixia Vision 5293 - 16-port Module to deliver PacketStack (AFM) capabilities (992-0010)
M5293-1PC	Ixia Vision 5293 - 1 port 100G CFP Module to deliver PacketStack (AFM) capabilities (992-0035)

IXIA VISION 5288 / 5293 1G OPTICAL LICENSES

LIC-5200-1PG	Ixia Vision 5200 series port license - 1G SFP/CU Port - QTY (1) (993-0233)
LIC-5200-4PG	Ixia Vision 5200 series port license - 1G SFP/CU Ports - QTY (4) (993-0234)
LIC-5200-8PG	Ixia Vision 5200 series port license - 1G SFP/CU Ports - QTY (8) (993-0235)
LIC-5200-15PG	Ixia Vision 5200 series port license - 1G SFP/CU Ports - QTY (15) (993-0236)

IXIA VISION 5288 / 5293 10G OPTICAL LICENSES

LIC-5200-1PX	Ixia Vision 5200 series port license - 10G SFP+ Port QTY (1) (993-0020)
LIC-5200-4PX	Ixia Vision 5200 series port license - 10G SFP+ Ports - QTY (4) (993-0021)
LIC-5200-8PX	Ixia Vision 5200 series port license - 10G SFP+ Ports – QTY (8) (993-0022)
LIC-5200-15PX	Ixia Vision 5200 series port license - 10G SFP+ Ports - QTY (15) (993-0023)

1GE TO 10 GE UPGRADE LICENSE

LIC-5200-1PX-U	Ixia Vision 5200 series port license upgrade - 1G SFP port to 10G/1G SFP+ Port - QTY (1) (993-0018)
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COLD SPACE LICENSES

LIC-5200-SPR	Ixia Vision 5200 series cold spare system port license - 528x / 529x / 526x models (993-0238)
LIC-5200-1PX-U	Ixia Vision 5200 series port license upgrade - 1G SFP port to 10G/1G SFP+ Port - QTY (1) (993-0237)

TRANSCEIVERS	
MM850	1G SFP optical transceiver SX 850nm
SM1310	1G SFP optical transceiver - LX 1310nm
CGI	1G SFP copper transceiver
MM850-PLUS	10G SFP+ optical transceiver - SR 850nm
SM1310-PLUS	10G SFP+ optical transceiver – LR 1310nm (10km)
XMM850-E	10G XFP Ethernet only optical transceiver - SR 850nm
XSM1310	10G XFP optical transceiver - LR 1310nm
QMM850-PLUS	40G QSFP+ optical transceiver 850nm (150 meters)
LRM1310-PLUS	LRM transceiver
CMM850	100G CFP optical transceiver - 100GBASE-SR10 850nm
CSM1310	100G CFP optical transceiver - 100GBASE-LR4 1310nm

IXIA WORLDWIDE

26601 W. AGOURA ROAD
CALABASAS, CA 91302

(TOLL FREE NORTH AMERICA)

1.877.367.4942

(OUTSIDE NORTH AMERICA)

+1.818.871.1800

(FAX) 818.871.1805

www.ixiacom.com

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IXIA EUROPE

HARTHAM PARK, CORSHAM
WILTSHIRE SN13 ORP
UNITED KINGDOM

SALES +44.7595.551.047

(FAX) +44.1249.700456

IXIA ASIA PACIFIC

101 THOMSON ROAD,
#29-04/05 UNITED SQUARE,
SINGAPORE 307591

SALES +65.6332.0125

(FAX) +65.6332.0127