



# InfiniLoad-3200

## Next Generation Converged IP Testing Appliance

### Product Overview

As networks, applications and services are converging to a single IP based infrastructure, network equipment manufacturers, data center operators, service providers and enterprises are under the pressure to deliver products with superior reliability, interoperability and performance.

InfiniCORE’s InfiniLoad-3200 Testing appliance provides a unified open testing platform for customers to deliver a full range of L2-L7 test solutions for data, signaling, voice, video and security applications.

The InfiniLoad-3200 is a modular built appliance delivering up to 8 cutting edge purposefully designed network processing modules. Each module provides quad SFP/SFP+ ports to connect to 1Gb, 10Gb LAN and 9.953 Gb WAN (STM-64/OC-192) that are capable of generating line rate stateless and stateful traffic. With stateful traffic, like HTTP and FTP, the InfiniLoad-3200 can function as both test client and server. The InfiniLoad-3200 provides a Web based user interface for test configuration, monitoring and reporting.

### Main Features and Performance Highlights

	Features	Benefits
<b>Stateless Traffic Generation</b>	Up to 320Gbps of wire speed stateless traffic generation capabilities for a wide variety of protocols including ARP, ICMP, IGMP, UDP, TCP with customizable payload with 802.1 Q and Q-in-Q capabilities; Supports RFC-2544.	Ideal for testing switches, routers, firewall, NAC, traffic shaping and VPN devices.
<b>Stateful Traffic Generation</b>	Up to 320Gbps of stateful traffic synthesis for wide variety of TCP and HTTP based protocols and applications.	Load testing Web and FTP servers with application realism; Testing gateway and intermediate network devices such as load balancer, firewall, IDS and IPS devices.
<b>Support full range of Ethernet Speed from 10Mbps to 10Gbps</b>	Up to 32x SFP/SFP+ 1Gbps/10Gbps Ethernet interfaces that are capable of 10/100/1000bps with SFP modules and 10Gbps LAN and WAN with SFP+ modules.	Convenient and easy to fit into the carrier, server and data center environment.
<b>Test Automation, Unified Test APIs and Centralized Management with Comprehensive Test Reports</b>	Support CLI and web GUI based device management; It also supports Windows based management and report generation system with comprehensive scripting system.	Easy to use and fully support test automation; 3rd party can create separate test suite and profession report.
<b>Modular Scalable Architecture</b>	Support 4, 8, 12, 16, 20, 24, 28, and up to full 32 ports configuration.	Tailor the hardware configuration to customer’s testing needs.
<b>Green and Cost Effective</b>	Device consumes a fraction of power in full operational state and provides unprecedented price performance.	Reduce CAPEX and OPEX.

## L4-L7 Testing Package—TCP Blaster

Feature	Description
<b>Configuration</b>	Each port can be configured as TCP Blaster Client and/or Server.
<b>Stateful Traffic Generation Capability</b>	Up to 500,000/Sec Session Setup Rate; Up to 16M Concurrent Sessions; 10G Bps throughput.
<b>End Point Simulation Capability</b>	Millions of IP and MAC addresses.
<b>Measurements</b>	Packet Rate; Retransmission Rate; TCP State Transition Rate; Latency; Payload Error
<b>Blaster Actions</b>	Connect; Listen; Send; Receive; Receive with Pattern Match; Reset; FIN; Purge; Wait; Match.
<b>Load Profile</b>	SIMUser; Connection Per Second; Ramp Up; Ramp Down; Stair; Burst Load Pattern; Capable of Multi-phases.

## L4-L7 Testing Package—HTTP Blaster

Feature	Description
<b>Configuration</b>	Each port can be configured as HTTP Blaster Client and/or Server.
<b>Stateful Traffic Generation Capability</b>	Up to 350,000/Sec Session Setup Rate; Up to 16M Concurrent Sessions; 10G Bps throughput.
<b>End Point Simulation Capability</b>	Millions of IP and MAC addresses.
<b>HTTP Protocol Support</b>	HTTP 1.0 and HTTP 1.1.
<b>HTTP Browser Support</b>	Safari; Firefox; IE; Chrome; Custom Browser Type.
<b>HTTP Server Simulation</b>	Flexible HTTP payload definition; Variable Length Payload Definition.
<b>Measurements</b>	Packet Rate; Retransmission Rate; TCP State Transition Rate; Latency; Payload Error; HTTP Error Code Statistics; Latency to 1st Byte Back.
<b>Blaster Actions</b>	HTTP GET; HTTP POST; HTTP PUT.
<b>Load Profile</b>	SIMUser; Connection Per Second; Ramp Up; Ramp Down; Stair; Burst Load Pattern; Capable of Multi-phases

## InfiniLoad-3200 Feature Specification

### User Interface

Feature	Description
<b>Integrated Web UI</b>	Standard Browser Based Web User Interface Supports Google Chrome, Apple Safari and Mozilla Firefox; Supports Test case configuration, execution, monitoring and report generation.
<b>Infiniload Test Automation Environment</b>	Ruby Based Test Automation Scripting Environment supports TCL/Expect script through Ruby TCL/PTY library.
<b>Command Line Interface</b>	Support Cisco style Command Line Interface (CLI) for device management.
<b>Multi User Support</b>	Support port reservation and test execution in multi-user environment.

### L2-L3 Test Package—Packet Generator and Analyzer

Feature	Description
<b>Min / Max Frame Transmit Speed</b>	1 frame per second to 100% of line rate of 10Gbps at minimum frame length
<b>Min / Max Frame Size</b>	60-10,000 Bytes
<b>Statistics</b>	Transmit Octets; Frames; Broadcast Frames; Unicast Frames; Multicast Frames; Frame Length Histogram; Receive Octets; Frames; Broadcast Frames; Unicast Frames; Multicast Frames; Frame Length Histogram; Total Error Frames; Short, Oversize, Jabber, FCS Error, Symbol Error Frames IP/UDP/TCP Checksum Error.
<b>Measurements</b>	Packet Rate; Throughput; Packet Loss; Packet Order; Packet Latency; Data Integrity; Frame Length Histogram.
<b>Capture Triggers</b>	Packet Arrival; CRC Error; Checksum Error; Capture Memory Size: 512MB Per Port.
<b>Frame Constructor</b>	Link Layer: 802.3; Ethernet II; 802.1Q; 802.1QinQ; Custom Tag (Marvell, Broadcom or private); FCoE; Network Layer and Transport Layer: IPv4; IPv6; UDP; TCP; ICMP; IGMP Tunnel: GRE; L2TP; MPLS; Flexible PCAP based frame constructor with variety of templates available.
<b>Load Definition</b>	Fixed Bit Rate; Fixed Frame Rate; Burst; Multi Burst; Continuous Burst.
<b>Frame Size Definition</b>	Fixed; Increment; Decrement; Random; IMIX.
<b>Embedded Testing Package</b>	RFC-2544
<b>Test Automation</b>	Programmable GUI Based Test Automation with support of verification rules

# InfiniLoad-3200 External Interface Specification

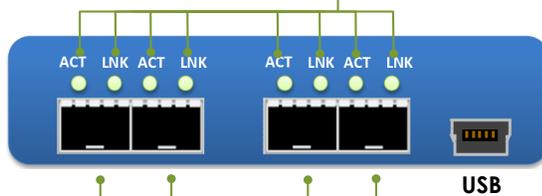
Function	Compliance	Type	Quantity
<b>10/100/1Gbps, 10Gbps Testing Port</b>	IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3aq 10GBASE-LRM SFP+ MSA, Revision 4.1 Direct-Attach Copper Cable Support up to 3 Meters 10/100/1G SFP	10G SFP+ 1G SFP	4, 8, 12, 16, 20, 24, 28, or 32
<b>10/100/1000Mbps Management Port</b>	10/100/1000BASE-T Category 5 UTP	Copper RJ-45	3
<b>Console Port</b>	115200 Baud	Serial	1
<b>USB Port</b>	USB 2.0 High Speed; USB 3.0 High Speed	USB 2.0 USB 3.0	2 2
<b>VGA Port</b>	VGA Monitor	DB-15	1
<b>128GB Storage</b>	SATA-II	SSD	1

## InfiniLoad-3200 Rear Panel Features

### Traffic Module

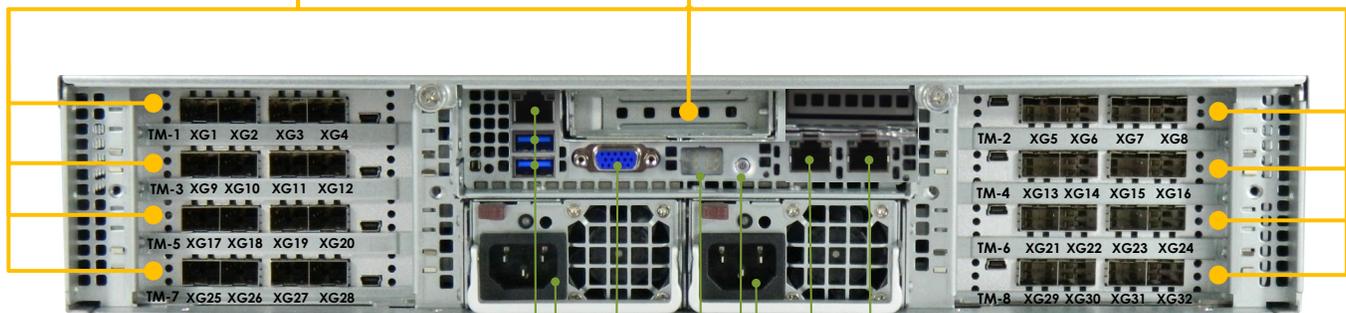
#### 10G/1G SFP+/SFP LEDs

Provide 10G/1G Traffic port status



#### 10G/1G SFP+/SFP Traffic Ports

#### Optional Tool Ports



#### Management 10/100/1000 RJ-45 Port

USB Port  
USB Port

Provide Ethernet connection for management Interfaces  
For use with USB devices

#### AC Power Supply

For Use with Supplied Power Cord

#### VGA Port

For Connecting to Monitor

#### 10/100/1000 RJ-45 LAN Port1/Port2

Provide Ethernet connections

#### AC Power Supply

For Use with Supplied Power Cord

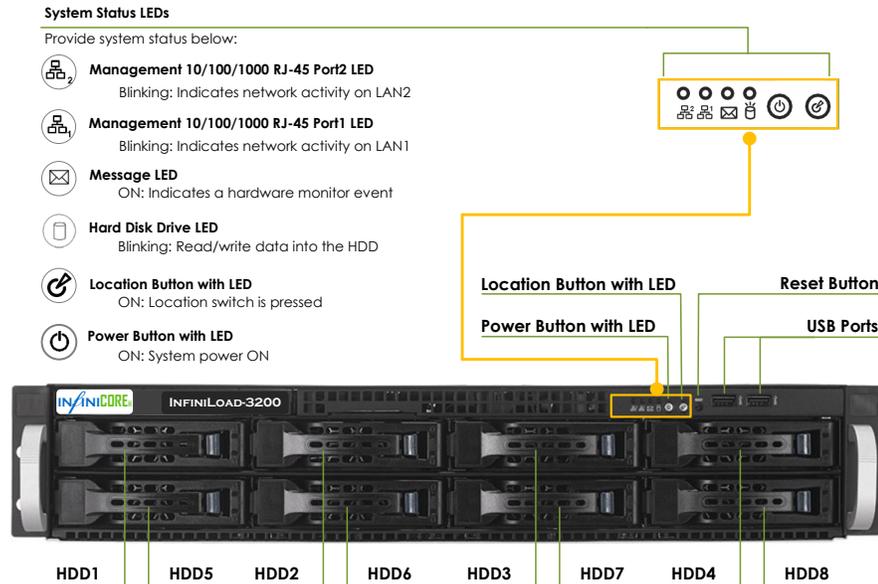
#### Power Button with LED

For Turn on or Turn off Power

#### LED Display

System Status Indicator

## InfiniLoad-3200 Front Panel Features



## InfiniLoad-3200 Standard Peripherals

Part Name	Quantity
UTP Cat 6. Ethernet Cable	1
Rail Mounting Kit	1
CD (User Manual, software package)	0 or 1
USB System Recovery Thumb Drive	0 or 1

## InfiniLoad-3200 Physical and Environmental Specification

Item	Description
<b>Dimension</b> (Width x Depth x Height)	19 x 29.5 x 3.5 (inches) 483 x 750 x 87 (millimeters)
<b>Net Weight</b> (without Hard Drives)	42 (pounds )/ 19 (kilograms)
<b>Environment</b>	Operating Temperature: 10° ~ 35° C (50° ~ 95° F) Non Operating Temperature: -40° ~ 70° C (-40° ~ 158° F) Humidity: 20 ~ 90% (Non-condensing)

## InfiniLoad-3200 Order Information

Part Number	Traffic Ports	L4-L7 Package	Form Factor	Operating Temperature
<b>Infiniload-3200-4</b>	4 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C
<b>Infiniload-3200-8</b>	8 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C
<b>Infiniload-3200-12</b>	12 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C
<b>Infiniload-3200-16</b>	16 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C
<b>Infiniload-3200-20</b>	20 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C
<b>Infiniload-3200-24</b>	24 SFP/SFP+	NO	2U Rack Mountable	10° C ~ 35° C