



InfiniLoad-400

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-400 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-400 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 traffic. The InfiniLoad-400 provides a Web based user interface for test configuration, monitoring and reporting.

Main Features and Performance Highlights

	Features	Benefits
Stateless Traffic Generation	Up to 80Gbps of wire speed stateless traffic generation 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.
WAN Delay Simulation	Up to 2 segments of wire speed 10Gbps WAN simulation with the capability of insert up to 3 seconds of delay.	Ideal for testing latency sensitive applications such as web, database, storage replication.
Support Full Range of Ethernet Speed from 10Mbps to 10Gbps	4/8x 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.
Test Automation, Unified Test APIs and Centralized Management with Comprehensive Test Reports	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.
Modular Scalable Architecture	Support 4 ports configuration.	Tailor the hardware configuration to customer’s testing needs; Lightweight 1U compact appliance.
Green and Cost Effective	Device consumes a fraction of power in full operational state and provides unprecedented price performance	Reduce CAPEX and OPEX.

InfiniLoad-400 Feature Specification

User Interface

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

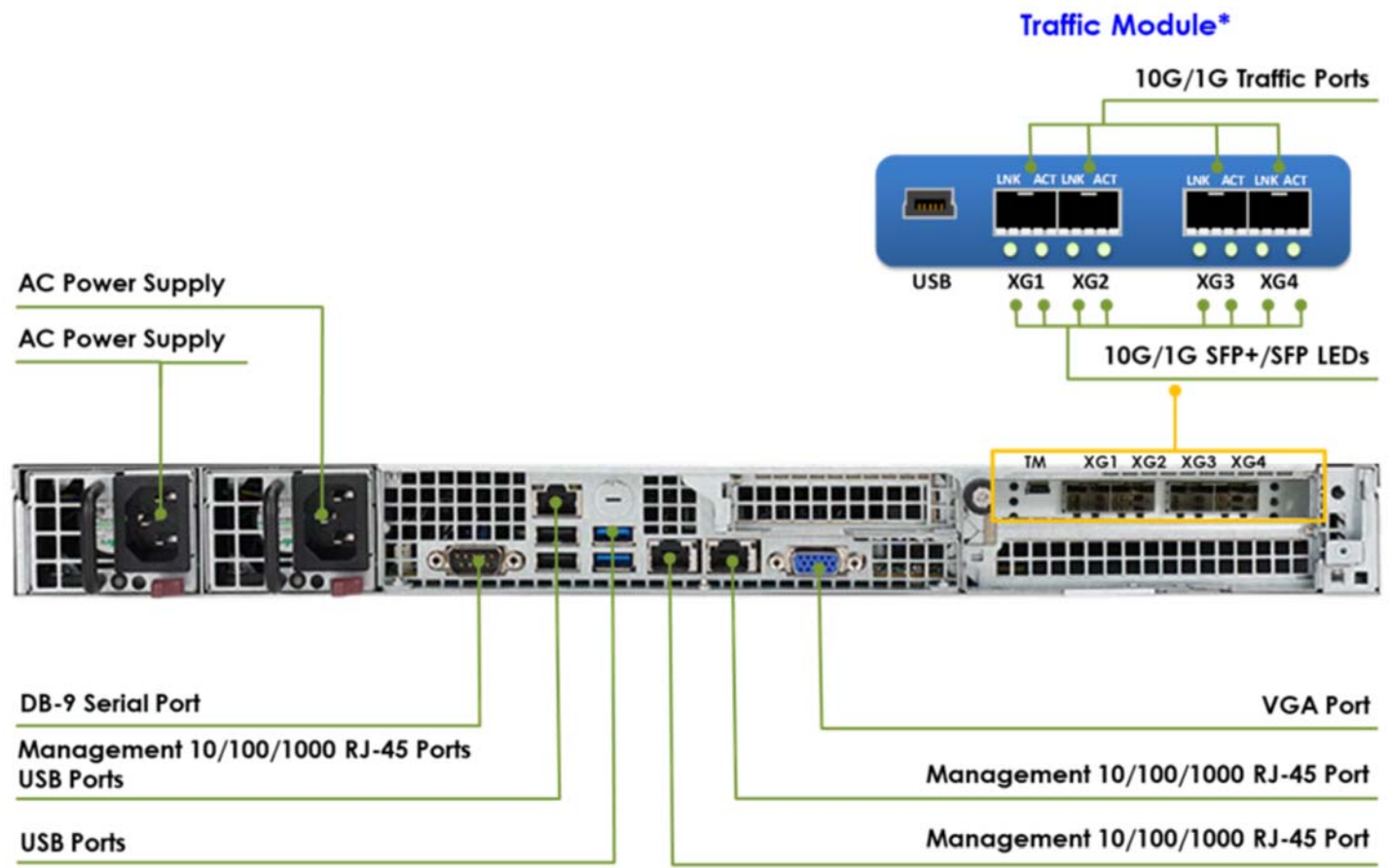
L2-L3 Test Package—Packet Generator and Analyzer

Feature	Description
Min / Max Frame Transmit Speed	1 frame per second to 100% of line rate of 10Gbps at minimum frame length.
Min / Max Frame Size	60-10,000 Bytes.
Statistics	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.
Measurements	Packet Rate; Throughput; Packet Loss; Packet Order; Packet Latency; Data Integrity; Frame Length Histogram.
Capture Triggers	Packet Arrival; CRC Error; Checksum Error; Capture Memory Size: 512MB Per Port
Frame Constructor	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.
Load Definition	Fixed Bit Rate; Fixed Frame Rate; Burst; Multi Burst; Continuous Burst.
Frame Size Definition	Fixed; Increment; Decrement; Random; IMIX.
Embedded Testing Package	RFC-2544.
Test Automation	Programmable GUI based test automation with support of verification rules.

InfiniLoad-400 External Interface Specification

Function	Compliance	Type	Quantity
10/100/1Gbps, 10Gbps Testing Ports	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 or 8
10/100/1000Mbps Management Port	10/100/1000BASE-T Category 5 UTP	Copper RJ-45	2
Console Port	115200 Baud	Serial	1
USB Port	USB 2.0/3.0 High Speed	USB 2.0/3.0	4
IPMI Port	Out of Band Management	Copper RJ-45	1
VGA Port	VGA Monitor	DB-15	1
128GB Storage	SATA-II	SSD	2
PCI Express x8 iNIC Module Slots	PCI Express Gen-2, Gen-3	Internal Slot	2






InfiniLoad-400 Rear Panel Features

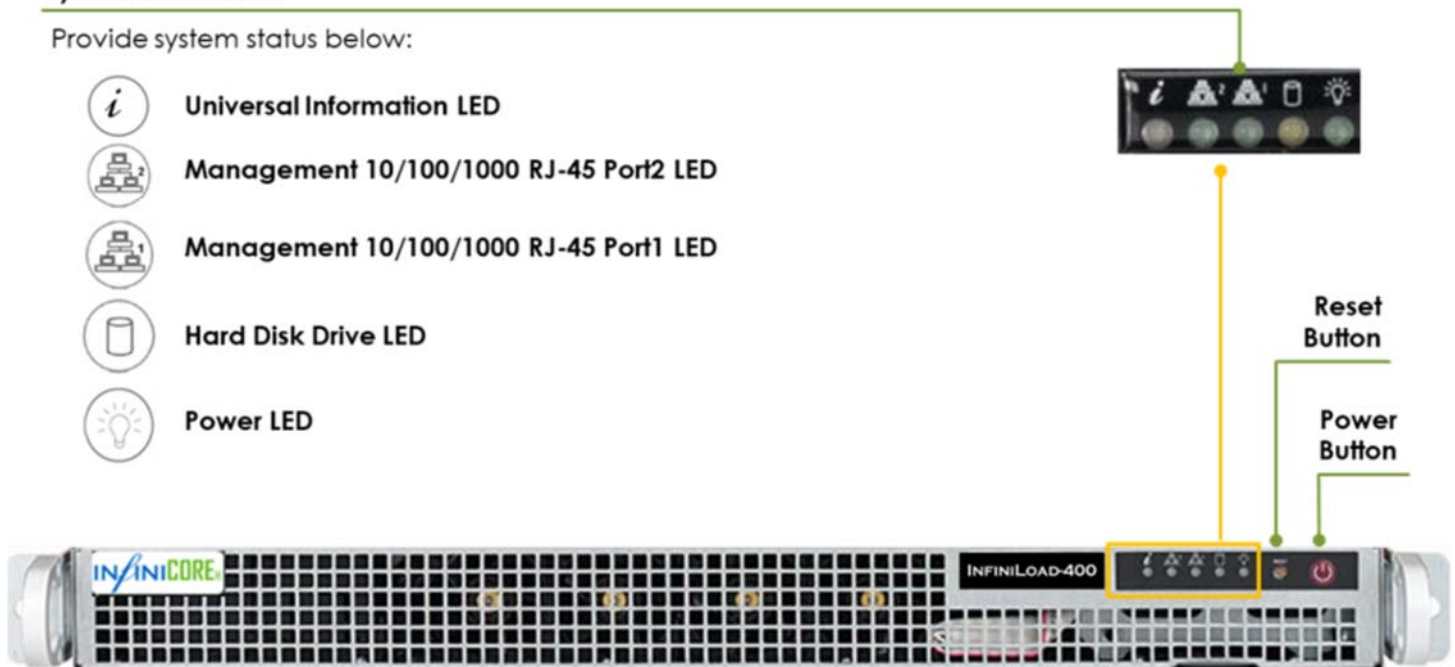


InfiniLoad-400 Front Panel Features

System Status LEDs

Provide system status below:

-  **Universal Information LED**
-  **Management 10/100/1000 RJ-45 Port2 LED**
-  **Management 10/100/1000 RJ-45 Port1 LED**
-  **Hard Disk Drive LED**
-  **Power LED**



InfiniLoad-400 Standard Peripherals

Part	Quantity
UTP Cat 6. Ethernet Cable	1
Mounting Kit	2 (1x 19"-26.4" Short Rail; 1x 25.6"-33.05" Long Rail)
CD (User Manual, software package)	0 or 1
USB System Recovery Thumb Drive	0 or 1

InfiniLoad-400 Physical and Environmental Specification

Item	Description
Dimension (Width x Depth x Height)	W×H×D: 17.2 x 16.8 x 1.7 (inches) 437 x 427 x 43 (millimeters)
Net Weight	19 (pounds) /8.6 (Kilograms)
Environment	Operating Temperature: 10° ~ 35° C (50° ~ 95° F) Non-operating Temperature: -40° ~ 70° C (-40° ~ 158° F) Humidity: 20% ~ 90% (non-condensing)

InfiniLoad-400 Order Information

Part Number	Traffic Ports	L2-L3 Package	Form Factor	Operating Temperature
Infiniload-400-4	4 SFP/SFP+	Yes	1U Rack Mountable	10° C ~ 35° C
Infiniload-400-8	8 SFP/SFP+	Yes	1U Rack Mountable	10° C ~ 35° C