



FlowMagic-3200

Next Generation Scale Out and Scale Up Traffic Visibility, Archiving and Data Mining Appliance

FlowMagic Product Family Overview

As networks, applications and services are converging to a single IP based infrastructure, network operators, data centers, service providers and enterprises are looking for ways to simplify and scale their operations. InfiniCORE's FlowMagic product family is the next generation, best in class, software defined unified network visibility and service intelligence platform that delivers unprecedented port density, performance and feature set for customers' mission critical applications.

The FlowMagic-3200 is a modular built 2U rack mount appliance delivering up to eight network traffic capture and processing modules. There are a wide range of available modules which provide seamless connectives to networks running at 10Mb/100Mb/1Gb RJ45, 100Mb/1Gb Fiber, 10Gb LAN, 9.953Gb WAN, 25Gb, 40Gb and 100Gb.

Main Features and Benefit Highlights

	Features	Benefits
A Variety of Traffic Modules with up to 1ns Time Stamp Support	Up to eight traffic modules with a wide selection of port specifications, varies from RJ-45, SFP, SFP/SFP+, SFP/SFP+/SFP28, QSFP+ to QSFP+/QSFP28.	Enables customer to monitor mission critical equipment and gaining instant traffic visibility into traffic and health condition of the networks running at different speeds.
High Performance, Powerful Software Defined Post Processing Features Over Captured Data	Capture filter, header split, content masking, timeline correlation, rich statistics, Top X analysis, NetFlow Record Generation, DDoS alert, compression and crypto based content protection and much more.	Ideal for large service provider and enterprise to gain real time view and act based on dependable and actionable accounting information.
Advanced Scale Out and Scale Up Storage Architecture Provides the Storage Needed for Vast Amount of Captured Data	Seamlessly support storage expansion from Terabytes to Petabytes with wide range of storage protocols and file systems support.	On demand capacity scaling that saves cost and protects investment; Standard based and field proven Ethernet and InfiniBand based storage technology.
Modular Architecture	Support 1, 2, 3, 4, 5, 6, 7, and up to 8 traffic modules with different ports configuration; Traffic modules mix and match according to demand.	Tailor the hardware configuration to support customer's initial needs and growing demand.
Browser Based User Interface for Anywhere Management Capability	Native HTML 5 based Web GUI that allows universal access to appliance anywhere from any standard based web browser.	Access the management interface from anywhere any device that is equipped with a modern browsers such as Chrome, Firefox, Safari and Internet Explorer.
Lower Power, Cost Effective and High Reliability and Availability	Leveraging latest generation processor technologies, FlowMagic is power efficient and equipped with redundant power supplies and hot serviceable fans.	<ul style="list-style-type: none"> • Reduce CAPEX and OPEX • High availability by design



FlowMagic-3200 External Interfaces Specification

Function	Compliance	Type	Quantity
Variety of Traffic Ports from 10Mb/100Mb/1Gb RJ45, 100Mb/1G SFP, 10Gb LAN, 9.953 WAN, 25Gb SFP28, 40G QSFP+ to 100Gb QSFP28	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; OC-192/STM-64 10G WAN; 10/100/1G SFP with SGMII and Auto Negotiation Support; IEEE 802.3by 25 Gigabit Ethernet; SFF-8436, SFF-8635 QSFP+ 40Gb Ports; SFF-8665 QSFP28 100Gb Ports.	10G SFP+ Fiber Optics/DACs; 1G SGMII Based SFP for Fiber Optics and RJ-45 Copper; 25G SFP28 Fiber Optics and DACs; 40G/100G QSFP+/QSFP28 Fiber Optics and DACs.	Varies, depending on the selection of Traffic Modules
10/100/1000Mbps Management Port	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	2
10/100/1000Mbps Management Port with BMC Support	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	1
10GBase-T Management Port	IEEE 802.3 10GBase-T	Copper RJ-45	0 or 2 ^[1]
10GBase-SFP+ Management Port	IEEE 802.3 10GBase-SR	10G SFP+ Fiber Optics	0 or 2 ^[2]
Console Port	115200 Baud 8 Bit Data No Parity 1 Stop Bit	Serial	1
Rear Panel USB Port	USB 2.0 High Speed	USB 2.0	4
Front Panel USB Port	USB 2.0 High Speed	USB 2.0	2
VGA Port	VGA DB-15 Connector	DB-15	1
8 SATA/SAS Ports RAID PCIe Gen3 Card	8 Ports 6Gpbs PCIe x8 Gen 3 Card	SFF-8087 8 Ports	0 or 1 ^[3]
3.5" Local Hard Drive with RAID Support for Data Storage ONLY	SATA-II/III Hot Swappable Bays	3.5" Hard Drive	7 or 8 ^[3]
3.5" System Hard Drive	SATA-II/III Hot Swappable Bays	3.5" Hard Drive	1 or 0 ^[3]
2.5" Internal System Drives	SATA-II Internal Non-Swappable Bays	1TB Solid State Drive (SSD)	0 or 2 ^[3]
Mellanox ConnectX-3 40Gbps InfiniBand Port	InfiniBand 40Gbps QSFP Connectivity	QSFP 40Gbps Fiber Optics	0 or 1
Front Panel Accessible Power Button	Push Button	Push Button	1
Front Panel Accessible Reset Button	Reset Button	Reset Button	1
Front Panel Accessible Rear Locator Button	Turn on location LED on Rear	Push Button	1
Front Visible LED Panel	LAN Activity LEDs HDD Activity LED Power LEDs	LEDs	6
Redundant Power Supply	1620W (80+) Platinum Power Supply 110-240V AC 50-60Hz Class I	1+1	2

Note:

[1]: Only available with Dual 10GBase-T Tool Port Package

[2]: Only available with Dual 10GBase-SFP+ Tool Port Package

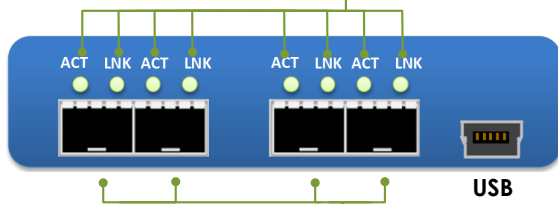
[3]: Only available with Raid Package

FlowMagic-3200 Rear Panel Features

Traffic Module—iNIC-T40G*

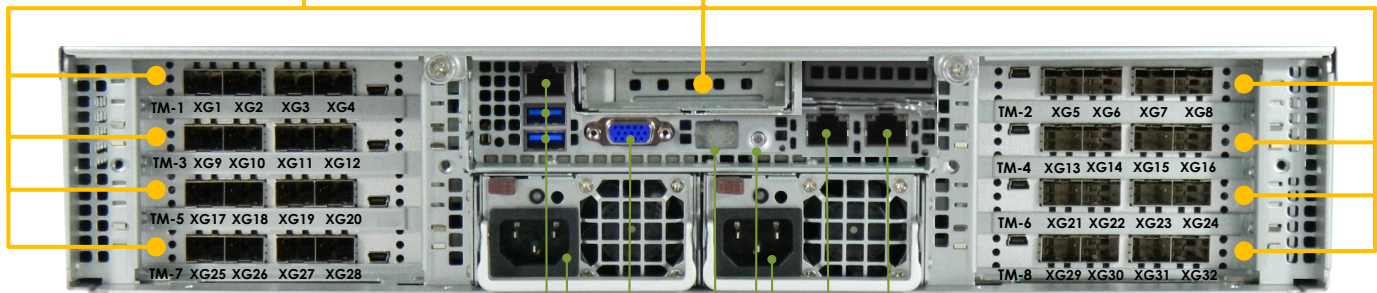
10G/1G SFP+/SFP LEDs

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

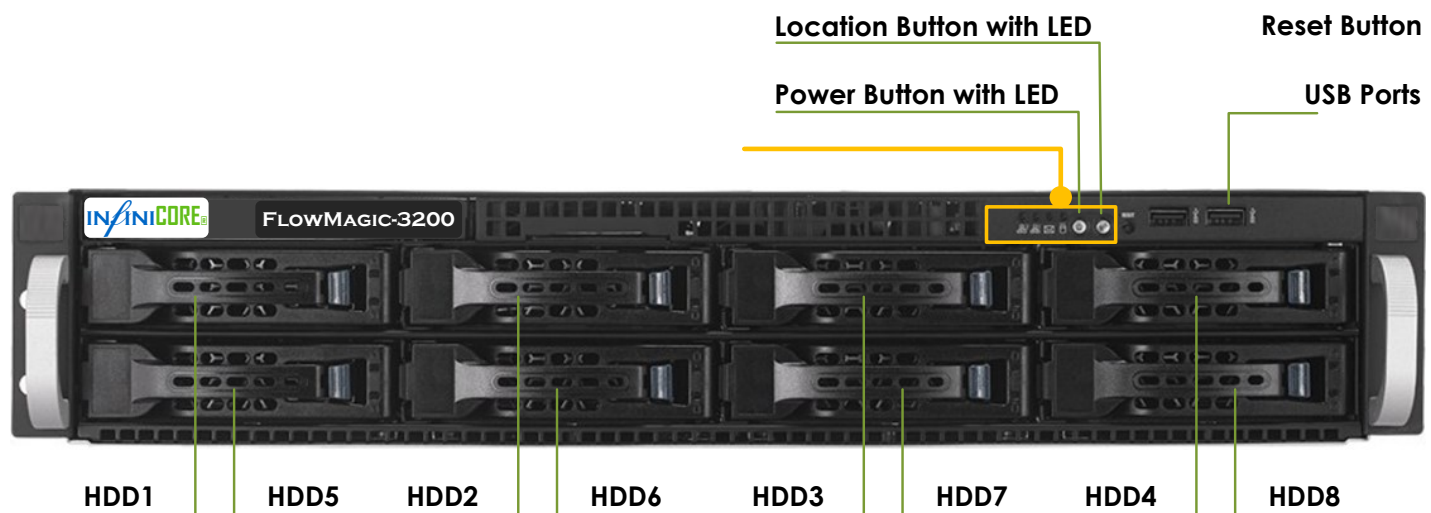
For Turn on or Turn off Power

LED Display

System Status Indicator

*: Please see page 6 for the availability of traffic modules with a wide selection of port specifications.

FlowMagic-3200 Front Panel Features



FlowMagic-3200 Foundation Software Package

Features and Packages	Description
InfiniOS 64Bit Operating System	The latest generation InfiniCORE 64 bit Operating System.
HTML 5 Based Web Management User Interface	Operating system independent Web UI supports access from Google Chrome, Mozilla Firefox, Microsoft Internet Explorer 9,10 and Apple Safari.
Software Defined Data Plane Orchestrator	Manage up to eight modules with a wide selection of capture and traffic processing port specifications varies from RJ-45, SFP, SFP/SFP+, SFP/SFP+/SFP28, QSFP+ to QSFP+/QSFP28.
High Performance Traffic Capture Package	Highly optimized line rate traffic capture package including capture filter, time stamping, capture size limiter, header-body split, source port tagging etc.
Statistic Master Package	Collecting statistics from capture ports such as 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.
Storage Orchestrator	Store captured traffic into locally attached storage system as well as external shelf; Automatic space recycling is supported.
Flex Capture Package	Support capture from one or more capture ports and either store the captured stream individually or merged into a single stream; Support capture filter; Support packet slicing;
Storage Performance Benchmark Package	A easy to use tool for benchmarking disk drive's performance individually or as a whole group; Support visualization of performance data.
Crystal View Packet Decoder Package	Provide instant traffic decoding and display from the web interface. multi-format display such as packet brief, packet details and hex format are supported.
Drill Master Traffic Export Package	Drill Master Traffic Export Package supports to extract full or subset of captured traffic into standard PCAP format; Traffic can be filtered before export; Traffic can be split into predefined file size.

FlowMagic-3200 Optional Software Package

Please contact InfiniCORE regional distributors/resellers or InfiniCORE sales for details regarding to optional packages.

Features and Packages	Description
Privacy Defender Package	Privacy Defender incorporates the latest traffic scanning technology to mask out privacy sensitive data. Data pattern can be expressed in predefined data format or simplified regular expression.
Store Compressor Package	Store Compressor package compresses the captured traffic using industry standard GZIP file format (RFC1952) before sending the captured data to storage.
Store Safe Package	Store Safe Package enables customer to encrypt captured traffic before sending to storage infrastructure. Store Safe is critical to improve the safety of captured data against physical intrusion or breach. It prevents capture data from becoming security hot spot and improves data safety to high standard.
Advanced Packet Operation Package	Support packet header stripping; packet slicing; packet de duplication among four capture ports;

FlowMagic-3200 Optional Hardware Package

Please contact InfiniCORE regional distributors/resellers or InfiniCORE sales for further information.

Features and Packages	Description
Dual 10GBase-T Tool Port Package	Dual 10GBase-T tool port package integrates a dual-port PCIe Ethernet network adapter which supports 2 10GBase-T tool ports
Dual 10GBase-SFP+ Tool Port Package	Dual 10GBase-SFP+ tool port package integrates a dual-port PCIe Ethernet network adapter which supports 2 10GBase SFP+ tool ports
RAID Package	RAID Package integrates a 8 SATA/SAS Ports PCIe Gen3 RAID card and 2x 2.5" 1TB internal system SSD drives which support RAID configurations on both eight 3.5" hot-swappable local disks drives for data storage, and the two SSD system drives

FlowMagic-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

FlowMagic-3200 Physical and Environmental Specification

Item	Description
Dimension (Width x Depth x Height)	19 x 29.5 x 3.5 (inches) 483 x 750 x 88 (millimeters)
Net Weight (without Hard Drives)	42 (pounds) / 19 (kilograms)
Environment	Operating Temperature: 0° ~ 40° C (32° ~ 104° F) Non Operating Temperature: -40° ~ 70° C (-40° ~ 158° F) Humidity: 20 ~ 90% (Non-condensing)

FlowMagic-3200 Order Information

Please contact InfiniCORE regional distributors/resellers or InfiniCORE sales for further information.

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-3200-[]	Based on Configuration	Based on module selection	Foundation Package

FlowMagic-3200 Available Traffic Modules

Part Number	Capture and Traffic Processing Ports	Port Specification
iNIC-T2G/T4G/T6G-RJ45	2, 4 or 6	10Mb/100Mb/1Gb RJ45
iNIC-T2G/T4G/T6G-SFP	2, 4 or 6	10Mb/100Mb/1Gb SFP Fiber
iNIC-T20G-RJ45	2	10Mb/100Mb/1Gb/10Gb RJ45 Copper
iNIC-T20G-SFP	2	1Gb/10Gb SFP/SFP+ Fiber
iNIC-T40G-SFP	4	1Gb/10Gb SFP/SFP+ Fiber
iNIC-T40G	4	1Gb/10Gb SFP/SFP+ Fiber 9.953Gb WAN SFP+ Fiber
iNIC-T50G	2	1Gb/10Gb/25Gb SFP/SFP+/SFP28 Fiber
iNIC-T80G	2	40Gb QSFP+ Fiber
iNIC-T200G	2	40Gb/100Gb QSFP+/QSFP28 Fiber

FlowMagic-3200 Optional Hardware Package Order Information

Please contact InfiniCORE regional distributors/resellers or InfiniCORE sales for further information.

Part Number	Description
FM-3200-RAID-PKG	FlowMagic 3200 RAID Package integrates a 8 SATA/SAS Ports PCIe Gen3 RAID card and 2x 2.5" 1TB internal system SSD drives which support RAID configurations on both eight 3.5" hot-swappable local disks drives for data storage, and the two SSD system drives.
FM-3200-DUAL-10GBase-T-PKG	Dual-port PCIe Ethernet network adapter supporting 2 10GBase-T ports.
FM-3200-DUAL-10GBase-SFP+-PKG	Dual-port PCIe Ethernet network adapter which supporting 2 10GBase SFP+ ports.