FlowMagic-3200-12

Next Generation Scale Out and Scale Up Network Appliance for Traffic Capture, Store and Analysis

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 software defined and hardware accelerated appliance optimized for network visibility and service intelligence workloads. FlowMagic delivers unprecedented port density, price performance and feature set for customers' mission critical applications.

The FlowMagic-3200-12 is a modularly built 2U rack mount chassis with up to six high performance 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 Benefits

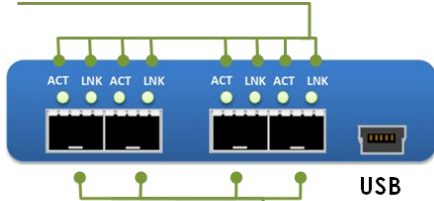|	Features	Benefits
A Variety of Traffic Modules with up to 1ns Time Stamp Support	Up to six traffic modules with a wide selection of port specifications, varies from RJ-45, SFP, SFP/SFP+, SFP/SFP+/SFP28, QSFP+ to QSFP+/QSFP28; Mix and match.	Enables customer to simultaneously monitor and reconstruct accurate insights over mission critical equipment and network segments.
Software Defined Built-in Packet Processing and filtering Features	Each traffic capture and processing module provides built-in packet processing functions such as packet deduplication, filtering, slicing, de-tunneling and SSL/TLS decryption features.	Ideal for monitoring tasks in complex environment such as enterprise and carrier's edge. FlowMagic provides all in one solution for performance, flexibility and ease of operation.
Scale Out and Scale Up Storage Architecture	Seamlessly support storage expansion from Terabytes to Petabytes beyond local attached storage bays. Support storage expansion through SAN or network file systems.	On demand storage architecture that provides scalability and performance that save cost and protects investment; Seamless connectivity to enterprise SAN or ethernet based network storage system.
Integrated Analytics, Export and Instant Collaboration Features	Provides conversational and connection level analytics to gain insights such as KPI, application content, events and alarms into application.	Generate unprecedented insights into applications and provide retrospective analysis, PCAP export and data sharing without a single packet leaving the appliance.
Browser Based User Interface for Remote Management Capability	Native HTML 5 based Web GUI that allows universal access to appliance easily and securely.	Access the management interface from anywhere and any device through HTTPS.
Low Power, Cost Effective and High Availability	Leveraging latest generation server grade processor technologies, FlowMagic is power efficient and equipped with redundant power supplies and hot serviceable fans.	• Reduce CAPEX and OPEX • Low Maintenance effort • Low TCO

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	Optional: 2
10GBase-SFP+ Tool Port	IEEE 802.3 10GBase-SR	10G SFP+ Fiber Optics	Optional: 2
10GBase-T Tool Port	IEEE 802.3 10GBaseT; Intel Server Class NIC	10G-BaseT Ports	Optional: 2
Console Port	115200 Baud 8 Bit Data No Parity 1 Stop Bit	Serial	1
Rear Panel USB Port	USB 3.0 High Speed	USB 3.0	2
Front Panel USB Port	USB 3.0 High Speed	USB 3.0	0
VGA Port	VGA DB-15 Connector	DB-15	1
16 SATA/SAS Ports RAID PCIe Gen3 Card	16 Ports 12Gpbs PCIe x8 Gen 3 Card	SFF-8087 16 Ports	1
3.5" Local Hard Drive with RAID Support	SATA-II Hot Swappable Bays	3.5" Hard Drive	12
2.5" Internal System Drives	SATA-II Internal Non-Swappable Bays	120GB or bigger 2.5" Enterprise Class SSD	2
Front Panel Accessible Power Button	Push Button	Push Button	1
Front Panel Accessible Reset Button	Reset Button	Reset Button	1
Front Visible LED Panel	Power LED HDD Activity LED LAN Activity LEDs Power Fail LED Information LED	LEDs	6
Redundant Power Supply	1000W High Efficiency Titanium Power Supply 110-240V AC 50-60Hz Class I	1+1	2

FlowMagic-3200-12 Rear Panel Features

Traffic Module—iNIC-T40G*

10G/1G SFP+/SFP LEDs

ACT LNK ACT LNK   ACT LNK ACT LNK

USB

Optional 10G Tool Ports

T1   T2

10G/1G Traffic Ports

For 1G/10G Traffic

TM-5 XG17 XG18 XG19 XG20

TM-1 XG1 XG2 XG3 XG4

TM-2 XG5 XG6 XG7 XG8

TM-3 XG9 XG10 XG11 XG12

TM-4 XG13 XG14 XG15 XG16

AC Power Supply

For use with Supplied Power Cords

Management 10/100/1000M RJ-45 Port1
Management 10/100/1000M RJ-45 Port2

Provide Ethernet connection for management interfaces

USB Ports

For use with USB devices

VGA Port

For Connecting to Monitor

COM1 Port

For Connecting to Console

BMC Port

Provide Ethernet connection for management interface

*: Please see page 5 for the availability of traffic modules with a wide selection of port specifications.

FlowMagic-3200-12 Front Panel Features

2x MIRROR   RAID to 12 Front Drives

HDD1	HDD2	HDD3	HDD4
HDD5	HDD6	HDD7	HDD8
HDD9	HDD10	HDD11	HDD12

**Control Panel
Buttons and LEDs**

FlowMagic-3200-12 Foundation Package

Features and Packages	Description
InfiniCORE 64bit Visibility Operation System	The latest generation InfiniCORE 64bit Visibility Operating System (iVOS) .
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 six 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.
PCAP Store and Sharing Through NFS	Store captured traffic in native PCAP format and share via NFS based file system; Automatic space recycling is supported.
Crystal View Packet Decoder Package	Crystal view package provides instant traffic decoding and display capability right from the web interface; Multi-format display such as packet brief, packet details and hex format are supported.
Drill Master Traffic Export Package	For standard capture and store domain, Drill Master Traffic Export Package supports extracting full or a subset of captured traffic into standard PCAP format; Traffic can be filtered before export; Traffic can be split into predefined file size.
Inline Visibility Packet Processing Toolkit	Supports packet deduplication, Keyword based header rewrite and SSL/TLS offline packet decryption
Detailed SYSLOG, Email and Event Notification Support	Comprehensive log for system event with user name, timestamp, module and service involved and operation parameters; Searchable and exportable.

FlowMagic-3200-12 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; Store Safe prevents capture data from becoming security hot spot and improves data safety to high standard.

FlowMagic-3200-12 Standard Peripherals

Part Name	Quantity
UTP Cat 6. Ethernet Cable	1
Power Cords	2
Rail Mounting Kit	1
CD (User Manual, software package)	0 or 1
USB System Recovery Thumb Drive	0 or 1

FlowMagic-3200-12 Physical and Environmental Specification

Item	Description	
Dimension (Width x Depth x Height)	19 x 32 x 3.5 (inches) 483 x 812 x 88 (millimeters)	
Net Weight (without Hard Drives)	42 (pounds)/ 19 (kilograms)	
Environment	Operating Temperature: Non Operating Temperature: Humidity:	$0º \sim 40º$ C ($32º \sim 104º$ F) $-40º \sim 70º$ C ($-40º \sim 158º$ F) $20 \sim 90\%$ (Non-condensing)

FlowMagic-3200-12 Order Information

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

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-3200-12-S2I-D12R-[]	Based on Configuration	Based on module selection	Foundation Package

FlowMagic-3200-12 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