



FlowMagic-400


Next Generation 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-400 is a price performance optimized appliance delivering up to 40Gbps of line rate packet captures to memory and supporting up to three 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.

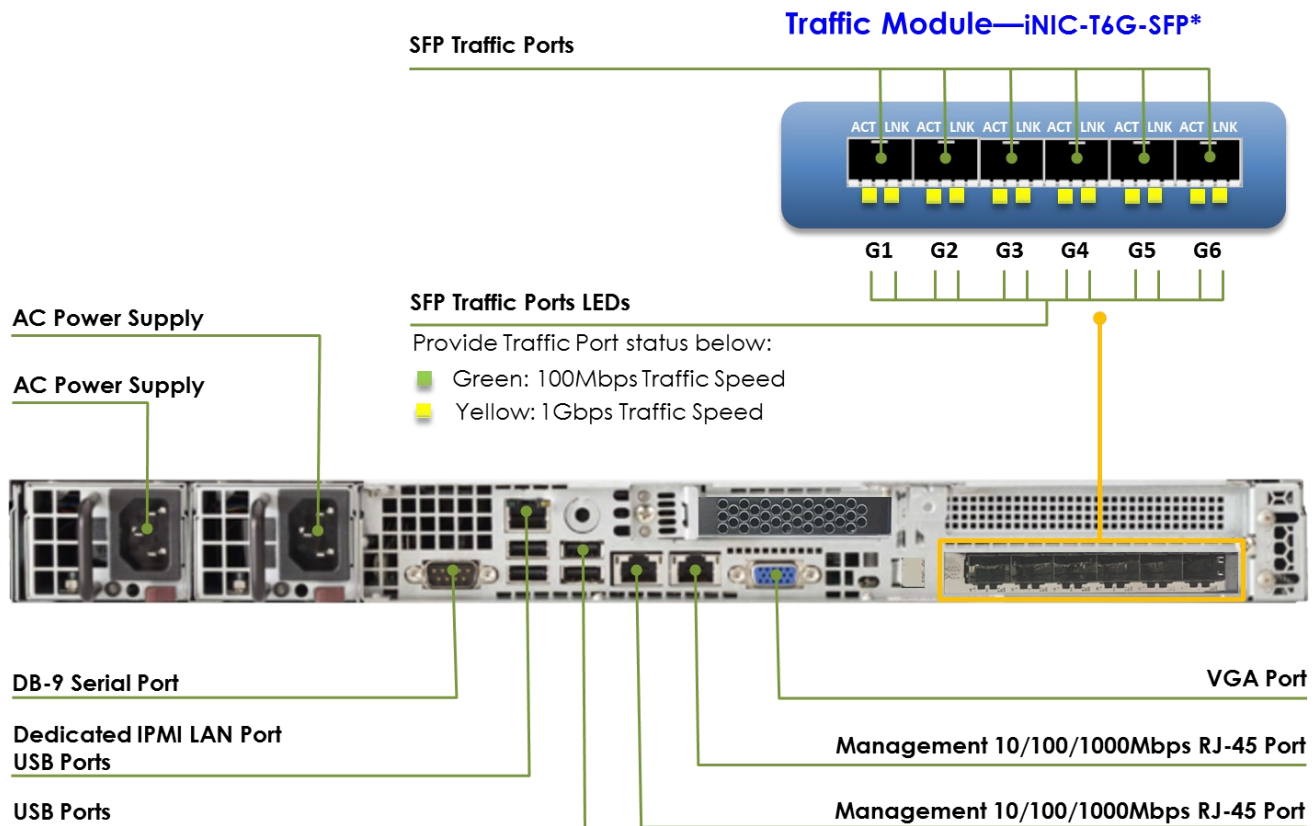
Main Features and Benefit Highlights

	Features	Benefits
A Variety of Traffic Modules with up to 1ns Time Stamp Support	Up to three 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 simultaneously 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.
Compact 1U Rack Mount Design, Easy to Deploy and Save Space	Compact 1U rack mount design, light weight, save space and easy to deploy.	Ideally for deploying at various sites from central offices/labs to regional labs and remote sites.
Modular Architecture	Support up to 3 traffic modules with different port configurations; mix and match.	Tailor the hardware configuration to provide better price performance.
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. 
Low 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-400 External Interfaces Specification

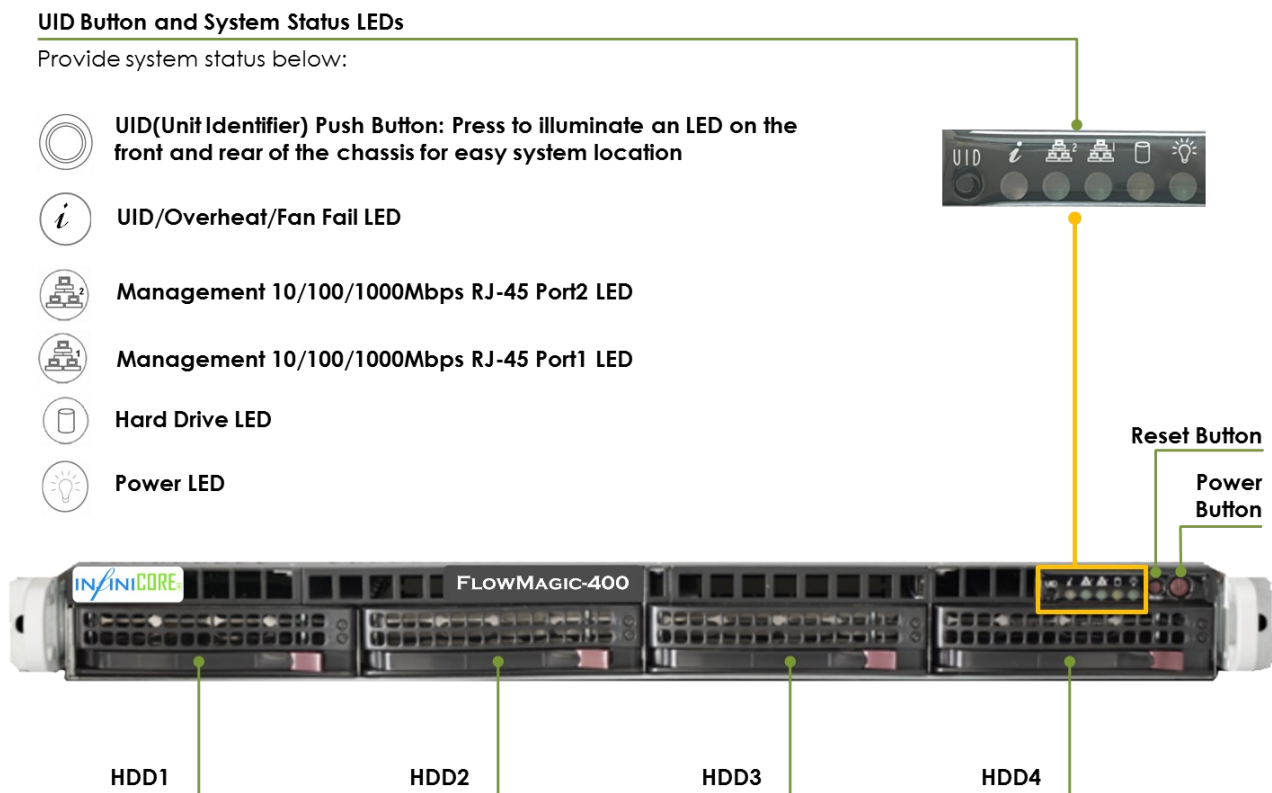
Function	Compliance	Type	Quantity
Variety of Traffic Ports from 10Mb/100Mb/1Gb RJ45, 100Mb/1G SFP, 10Gb LAN, 9.953 WAN, 25Gb SFP28, 40G QSFP+ to 100Gb QSFP28	IEEE 802.3ae 10 Gigabit Ethernet; IEEE 802.3aq 10GBASE-LRM; SFP+ MSA, Revision 4.1; Direct-Attach Copper Cable Support up to 3 Meters; OC-192/STM-64 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	N/A
10GBase-T Management Port	IEEE 802.3 10GBase-T	Copper RJ-45	N/A
10GBase-SFP+ Management Port	IEEE 802.3 10GBase-SR	10G SFP+ Fiber Optics	N/A
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	2
Front Panel USB Port	USB 2.0 High Speed	USB 2.0	2
VGA Port	VGA DB-15 Connector	DB-15	1
3.5" Local Hard Drive with RAID Support	SATA-II Hot Swappable Bays	3.5" Hard Drive	4
Mellanox ConnectX-3 40Gbps InfiniBand Port	InfiniBand 40Gbps QSFP Connectivity	QSFP 40Gbps Fiber Optics	N/A
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	N/A
Front Visible LED Panel	System Overheat LED LAN Activity LEDs HDD Activity LED Power LEDs	LEDs	5
Redundant Power Supply	500W (80+) Platinum Certified Power Supply 110-240V AC 50-60Hz Class I	1+1	2

FlowMagic-400 Rear Panel Features



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

FlowMagic-400 Front Panel Features



FlowMagic-400 Foundation 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 three 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	Purposefully optimized network traffic capture package which provides functions such as timestamp, filter, truncation, source port tagging, tunnel termination 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	Stores captured traffic into network attached storage system via NFS or standard network based file system; Automatic space recycling is supported.
High Availability Capture Port Teaming	Configures two capture ports to form Active and standby pair; Traffic on standby port will be captured only when active port loses link.
High Availability Storage Port Teaming	Configures two storage ports to form Active and standby pair; Storage traffic will be sent through standby port only when active port loses link.
Crystal View Packet Decoder Package	Provides 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	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-400 Additional Software Features

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

Features and Packages	Description
Remote Timestamp Extraction	Be able to extract timestamp within packet. Supports Arista 7150, FlowDirector-640 inline time stamping and key frame format; Supports Cisco ERSPAN V3 inline timestamp format
Store Compressor	Store Compressor package compresses the captured traffic using industry standard GZIP file format (RFC1952) before sending the captured data to storage
GRE-ERSPAN De-Tunneling	Integrated support for Cisco ERSPAN de-tunneling feature that supports GRE-ERSPAN V2, GRE-ERSPAN V3

FlowMagic-400 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-400 Physical and Environmental Specification

Item	Description
Dimension (Width x Depth x Height)	19 x 25.6 x 1.75 (inches) 483 x 650 x 43 (millimeters)
Net Weight (without Hard Drives)	29 (pounds) / 13 (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-400 Order Information

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

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-400-[]	Based on Configuration	Based on module selection	Foundation Package

FlowMagic-400 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