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.

FlowMagic-400 is a price performance optimized appliance delivering up to 40Gbps of line rate packet captures with embedded cutting edge purposefully designed network processing module, which provides 4 1G/10G multi-rate ports that can interconnect a wide range of media types with SFP or SFP+ plugin modules with fiber optics and DAC cables.
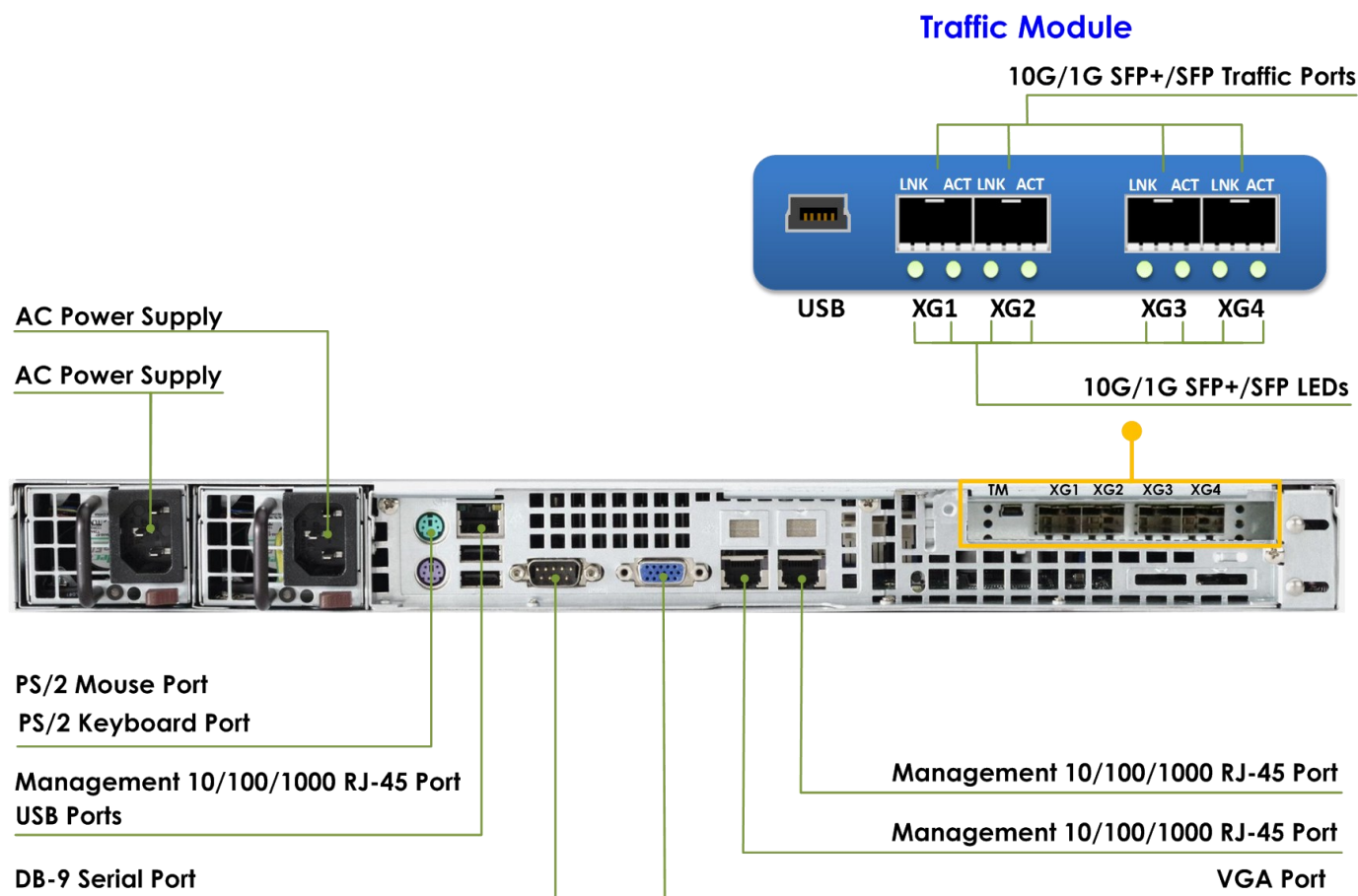
Main Features and Benefit Highlights

	Features	Benefits
Unprecedented Line Rate Packet Capture Capability with High Resolution 1ns Time Stamp Support.	40Gbps of line rate packet capture on 4 ports each with 4 Giga Bytes capture buffer.	Enables customer to simultaneously monitor mission critical equipment and gaining instant traffic visibility into traffic and health condition of the networks.
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 4 ports configuration	Tailor the hardware configuration to support customer's initial needs and growing demand.
Browser Based User Interface for Anywhere Management Capability	HTML 5 based Web GUI and CLI based appliance management allows universal access to Appliance anywhere from a wide varieties of devices.	With Web based User Interface technology, FlowMagic appliance is easy to use and easy to deploy that enables multi-tenant simultaneous view and analysis.
Green, 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.	Reduce customers' CAPEX and OPEX; High Availability by Design.

FlowMagic-400 External Interfaces Specification

Function	Compliance	Type	Quantity
Quad mode 10/100/1000 Mbps, 10 Gbps Traffic Ports	IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.3aq 10GBASE-LRM SFP+ MSA, Revision 4.1 Direct-attach Copper Support up to 10 meters 10/100/1G SFP with SGMII and Auto Negotiation Support	10G SFP+ Fiber Optics 10G SFP+ Passive DAC Cable 1G SGMII Based SFP for Fiber Optics and RJ-45 Copper	4
10/100/1000 Mbps Management Port	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	2
10/100/1000 Mbps 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	2 (1 at front panel and 1 at rear panel)
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 (3 available for data storage)
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	400W (80+) Gold Level Power Supply 110-240V AC 50-60Hz Class I	1+1	2
Keyboard/Mouse	PS/2 Keyboard and Mouse Ports	PS/2	2

FlowMagic-400 Rear Panel Features

Traffic Module

10G/1G SFP+/SFP Traffic Ports

LNK ACT LNK ACT   LNK ACT LNK ACT

USB   XG1   XG2   XG3   XG4

10G/1G SFP+/SFP LEDs

AC Power Supply

AC Power Supply

TM   XG1 XG2 XG3 XG4

PS/2 Mouse Port

PS/2 Keyboard Port

Management 10/100/1000 RJ-45 Port
USB Ports

Management 10/100/1000 RJ-45 Port

Management 10/100/1000 RJ-45 Port

DB-9 Serial Port

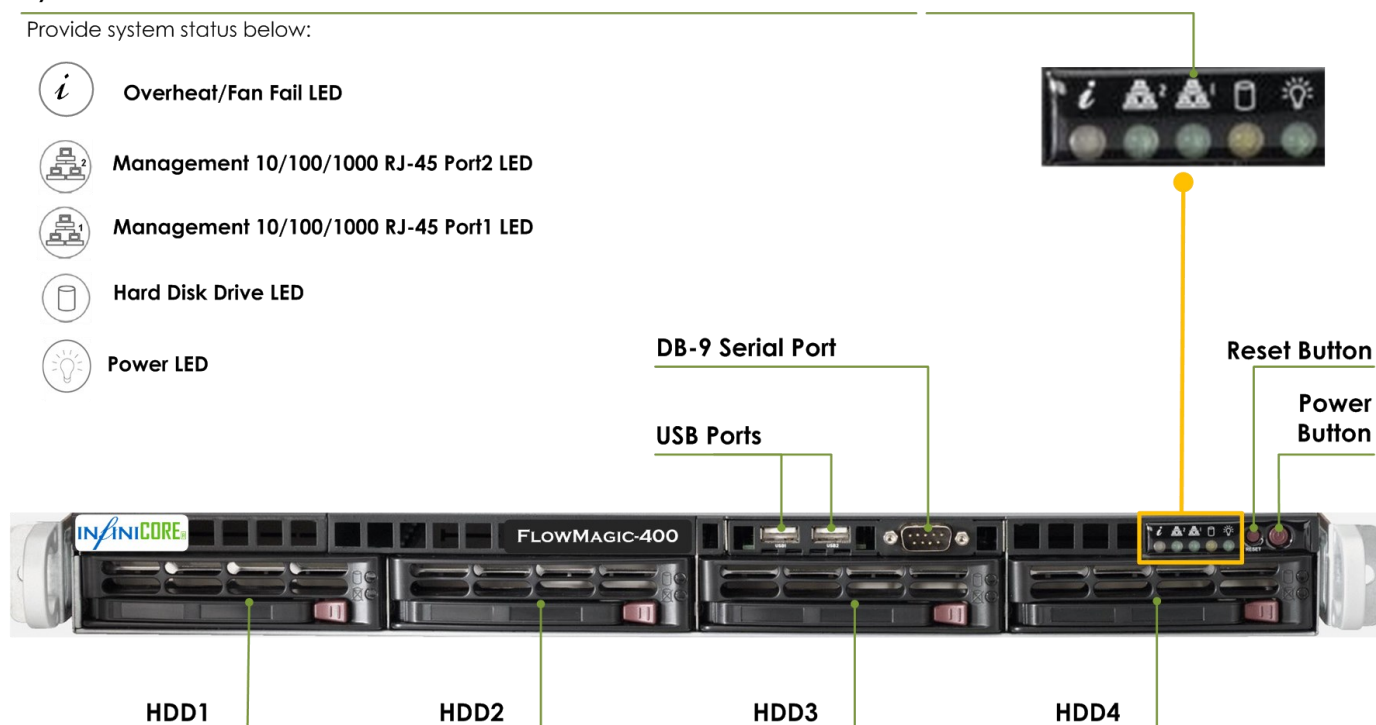VGA Port

FlowMagic-400 Front Panel Features

System Status LEDs

Provide system status below:

i Overheat/Fan Fail LED

Management 10/100/1000 RJ-45 Port2 LED

Management 10/100/1000 RJ-45 Port1 LED

Hard Disk Drive LED

Power LED

DB-9 Serial Port

Reset Button

Power Button

USB Ports

FLOWMAGIC-400

HDD1   HDD2   HDD3   HDD4

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 4 Traffic Ports
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.
Stats Master Package	Collecting statistics from capture ports such as Receive Octs; 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 network attached storage system via NFS or standard network based file system; Automatic space recycling is supported.
High Availability Capture Port Teaming	Configure 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	Configure 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	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-400 Optional Package

Please Contact InfiniCORE regional distributors or InfiniCOREsales 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.

FlowMagic-400 Standard Peripherals

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

FlowMagic-400 Physical and Environmental Specification

Item	Description
Dimension (Unit: mm)	503 x 437 x 43 (D x W x H)
Net Wight (Unit: Kilogram)	18
Environment	Operating Temperature: 10 ~ 35 Non Operating Temperature: -40 ~ 70 Humidity: 20 ~ 90% (Non-condensing)

FlowMagic-400 Primary Order Code

Please Contact InfiniCORE regional distributors or InfiniCORE sales for further information.

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-400	4	1G/10G SFP and SFP+ Compatible with DAC Support	Foundation Package