



2x1/10Gb SFP+

6x1Gb RJ45

Size of small laptop computer



FlowMagic-20

Portable Traffic Visibility and Performance Monitoring Appliance

Rack Mount Kit Included

FlowMagic Product Family Overview

FlowMagic is a purpose built appliance that is designed to enable service chaining between packet broker, traffic capture, real-time and retrospective traffic analysis and other advanced visibility functions such as deduplication, decryption and NetFlow record generation. Empowered by a software defined, graphically driven service builder, the FlowMagic is designed to ease the day-to-day monitoring and trouble shooting tasks for network administrators, developers and security teams.

The FlowMagic-20 is a lightweight, portable solution that delivers unprecedented port density, features and price performance. The FlowMagic-20 provides two 1Gb/10Gb SFP/SFP+ and four 10Mb/100Mb/1000Mb RJ-45 ports in a small laptop size form factor. The chassis also includes space for two 2.5" internal drives that could be either SSDs or hard drives with up to 10Gbps capture to disk rate. If desired, the internal drives can be replaced by an extra traffic module. Also, the FlowMagic-20 can use network attached storage as its capture repository through NFS or other types of network file system or storage area networks.

Highlights to Main Features and Benefits

	Feature Highlights
2x 1Gb/10Gb SFP/SFP+ 4x 10Mb/100Mb/1000Mb RJ-45 Multi-service ports	Each of the interfaces can be configured to function as one of the following: <ul style="list-style-type: none"> • Capture ports • Traffic ingress port • Traffic egress port • Interface to send NetFlow record • Interface to connect to network attached storage
Inline or Tap based deployment	Rich deployment modes: <ul style="list-style-type: none"> • Seamlessly work with SPAN, TAP, optical splitter, FlowDirector or packet broker • Support inline deployment mode, in which FlowMagic can: <ul style="list-style-type: none"> • Forward packets between the ports • Mirror a copy of bi-directional traffic to service domain
Traffic Acquisition/Capture Service	Capture network traffic from traffic interfaces or from the output of a service component <ul style="list-style-type: none"> • Packet slicing • Packet tag insertion • Autonomous storage management and recycle • Traffic indexing for fast retrieval • Compression and size expansion avoidance • AES-128 or 256 based encryption
Packet Shark Real-time and Retrospective Packet Viewer	Integrated real-time and retrospective packet viewer with display filter support <ul style="list-style-type: none"> • Full packet decode capabilities with tree view • Supports wireshark display filter syntax • Full mouse and keyboard navigation support • Integrated assistant to create display filter from any decoded field • Integrated event and ticket system for spotting issues

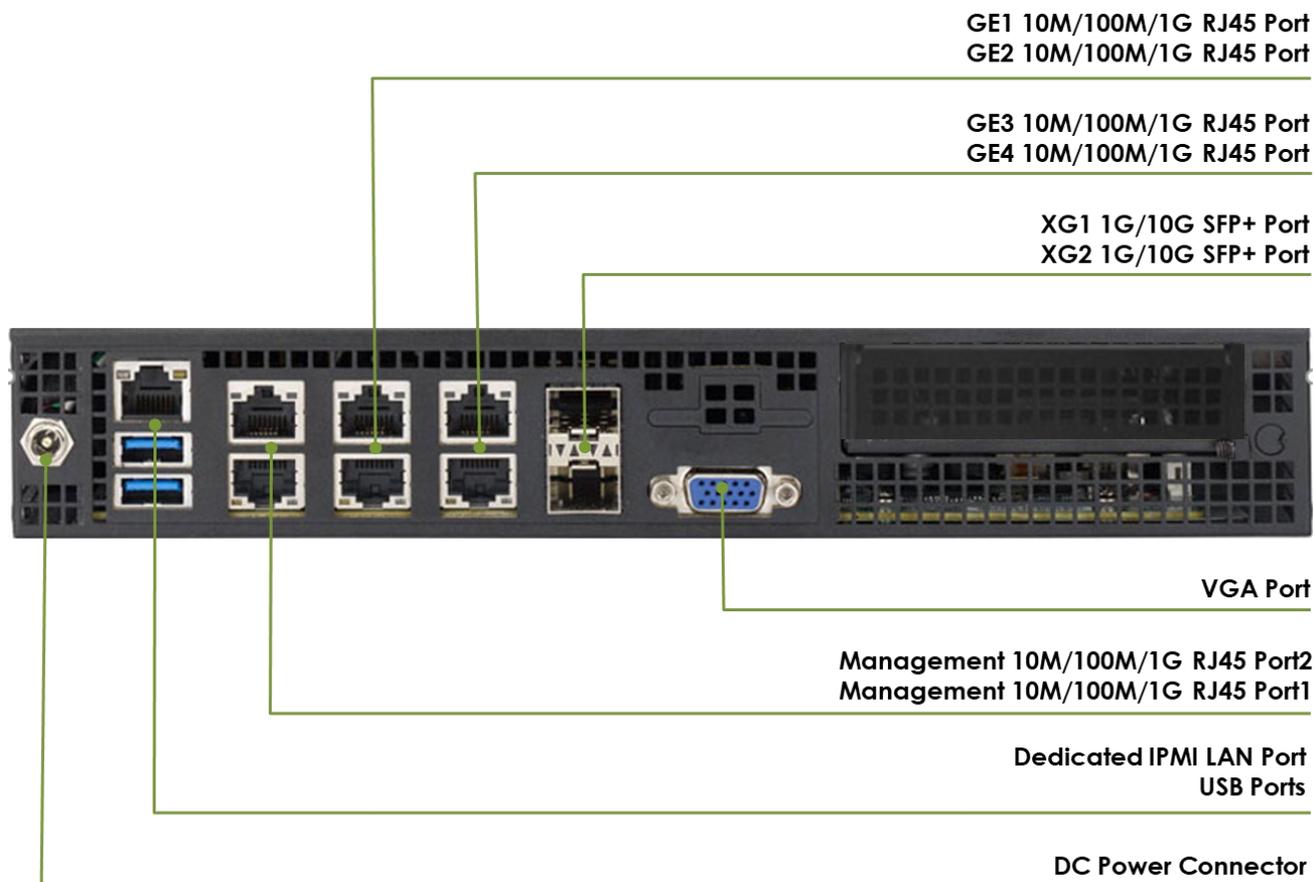
Main Features and Benefit Highlights

	Feature Highlights
PCAP Exporter with Data Masking and Privacy Control	<p>Rich PCAP export functionalities available from both Web UI and iVOS API</p> <ul style="list-style-type: none"> • Export captured traffic into PCAP by time, filter, keyword scan or all above • Supports data masking by pattern match or protocol layer or portions of the packet • Flexible time stamp resolution support • Split PCAP output into specified file size • Optional compression and archive format support • Capability to rename the PCAPs during the download to avoid confusion
Packet Broker Services	<p>FlowMagic integrates rich packet broker functions.</p> <ul style="list-style-type: none"> • Packet Aggregation from any number of traffic ports or the output from upstream services into one stream • Packet Replication to any number of traffic ports or downstream services • Packet Filtering based on L2/L3/L4 fields with priorities support. Flexible placement in the data flow
Packet Deduplication	<ul style="list-style-type: none"> • Flexible Dedup window between 500 micro-seconds to 100 milli-seconds • Rich field selector to identify the packets • Identify duplicated packets based on one or more identifiers in the L2/L3/L4 layer.
SSL/TLS Traffic Decryption	<ul style="list-style-type: none"> • Supports SSL 3.0/TLS1.0/TLS1.1/TLS1.2 • Supports RSA based key exchange algorithms • Per-server or per-network decryption policies with client selector • Support import of encrypted key format • Flexible packet action based on the decryption policy settings, rewrite packet header into regular non-encrypted form (i.e. HTTPS to HTTP) • Maintains the flow integrity for the decrypted traffic by rewriting the TCP sequence/acknowledgement numbers
NetFlow V5/V9/IPFIX Generator	<ul style="list-style-type: none"> • Supports the generation of NetFlow records from ingress port or the output of services functions such as aggregator or filters • Supports NetFlow V5, V9 or IPFIX • Flexible reporting intervals and report control • Interop with standard NetFlow collectors • The Flow records can be output through a management port or a dedicated traffic port
Real-time/Near Real-time/Retrospective Deep Inspection Traffic Analyzer	<p>Integrated traffic analyzer can be invoked in real-time, near real-time or retrospective analysis mode.</p> <ul style="list-style-type: none"> • Multi timescale trending analysis by protocols • Integrated event and ticket reporting system • Integrated database navigation and query system • TopN, Endpoints, servers and protocols statistics • Integrated in-depth connections and transaction analysis • HTTP URL and DNS record extraction • GeoIP and AS aggregation and statistics • Traffic microburst monitoring • Endpoint and server traffic profiling and reporting

FlowMagic-20 External Interfaces Specification

Function	Compliance	Type	Quantity
Traffic Ports 10Mb/100Mb/1Gb RJ-45 and 100Mb/1G SFP/SPF+	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 with SGMII and Auto Negotiation Support.	10G SFP+ Fiber Optics/ DACs; 1G SGMII Based SFP for Fiber Optics and RJ-45 Copper;	4x 10Mb/100 Mb/100-Mb RJ-45; 2x 1Gb/10Gb SFP/SFP+
Choice of Expansion Module	iNIC-T2G-RJ45/SFP iNIC-T4G-RJ45/SFP	Dual or qual RJ-45 or SFP ports iNIC	1
10/100/1000Mbps Management Port	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	2
Dedicated 10/100/1000Mbps IPMI Port	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	1
Rear Panel USB Port	USB 3.0 High Speed	USB 3.0	2
VGA Port	VGA DB-15 Connector	DB-15	1
2.5" Fixed Internal Hard Drive with RAID Support	Fixed Internal SATA-III Drives; Optional support RAID-0,1	2.5" Hard Drive/SSD	Up to 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	System Information LED LAN Activity LEDs HDD Activity LED Power LEDs	LEDs	5
DC Power Adapter	84W DC Power Adapter 110-240V, 1.3A AC 50-60Hz Class I	1	1

FlowMagic-20 Rear Panel Features



FlowMagic-20 Front Panel Features

System Status LEDs

Provide system status below:

-  **Overheat/Fan Fail/Power Fail/UID LED**
-  **Management 10/100/1000Mbps RJ-45 Port2 LED**
-  **Management 10/100/1000Mbps RJ-45 Port1 LED**
-  **Hard Drive LED**
-  **Power LED**



FlowMagic-20 Standard Peripherals

Part Name	Quantity
UTP Cat 6. Ethernet Cable	1
Rack Mounting Kit	1

FlowMagic-20 Physical and Environmental Specification

Item	Description
Dimension (Width x Depth x Height)	10 x 8.9 x 1.75 (inches) 254 x 226 x 43 (millimeters)
Net Weight	8 (pounds) / 3.6 (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-20 Order Information

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

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-20	6x 10Mb/100Mb/ 1Gb RJ-45 + 2x 1Gb/10Gb SFP/SFP+	6x 10Mb/100Mb/ 1Gb RJ-45 Ports + 2x 1Gb/10Gb SFP/SFP+ Ports	Foundation Package

FlowMagic-20 Rack Mounting Brackets

