



# FlowMagic-8B/8B+

Lightweight Rack Mountable Traffic Visibility, Archiving and Data Mining Appliance

## 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-8B/8B+ is a 1U rack mountable appliance delivering rich feature set, high port density and excellent price performance. There are six 10Mb/100Mb/1000Mb RJ-45 ports organized as three bypass pairs with an option to add one additional traffic module (8B+). The FlowMagic-8B/8B+ has integrated drive space that can house two to four 2.5" spinning or SSD drives with up to 8Gbps capture to disk rate.

## Highlights to Main Features and Benefits

	Feature Highlights
6x 10Mb/100Mb/1000Mb RJ-45 Multi-service ports	<p>Each of the interfaces can be configured to function as one of the following:</p> <ul style="list-style-type: none"> <li>• Capture ports</li> <li>• Traffic ingress port</li> <li>• Traffic egress port</li> <li>• Interface to send NetFlow record</li> <li>• Interface to connect to network attached storage</li> </ul>
Inline or Tap based deployment	<p>Rich deployment modes:</p> <ul style="list-style-type: none"> <li>• Seamlessly work with SPAN, TAP, optical splitter, FlowDirector or packet broker</li> <li>• Support inline deployment mode, in which FlowMagic can: <ul style="list-style-type: none"> <li>• Forward packets between the ports</li> <li>• Mirror a copy of bi-directional traffic to service domain</li> </ul> </li> </ul>
Traffic Acquisition/Capture Service	<p>Capture network traffic from traffic interfaces or from the output of a service component</p> <ul style="list-style-type: none"> <li>• Packet slicing</li> <li>• Packet tag insertion</li> <li>• Autonomous storage management and recycle</li> <li>• Traffic indexing for fast retrieval</li> <li>• Compression and size expansion avoidance</li> <li>• AES-128 or 256 based encryption</li> </ul>
Packet Shark Real-time and Retrospective Packet Viewer	<p>Integrated real-time and retrospective packet viewer with display filter support</p> <ul style="list-style-type: none"> <li>• Full packet decode capabilities with tree view</li> <li>• Supports wireshark display filter syntax</li> <li>• Full mouse and keyboard navigation support</li> <li>• Integrated assistant to create display filter from any decoded field</li> <li>• Integrated event and ticket system for spotting issues</li> </ul>

## Main Features and Benefit Highlights

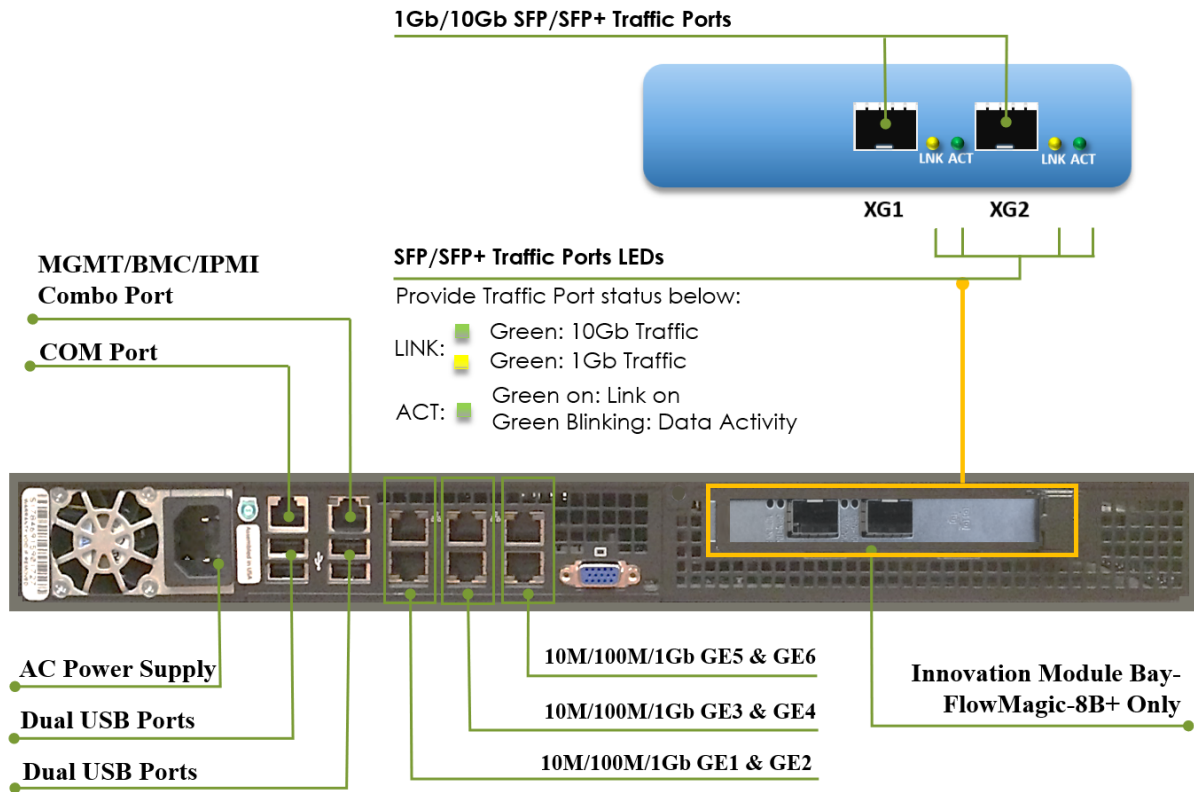
	Feature Highlights
PCAP Exporter with Data Masking and Privacy Control	<p>Rich PCAP export functionalities available from both Web UI and iVOS API</p> <ul style="list-style-type: none"> <li>• Export captured traffic into PCAP by time, filter, keyword scan or all above</li> <li>• Supports data masking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

## FlowMagic-8B/8B+ External Interfaces Specification

Function	Compliance	Type	Quantity
<b>Traffic Ports 10Mb/100Mb/1Gb RJ-45 and optional RJ-45, SFP, SFP/SFP+, SFP/SFP+/SFP28</b>	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; IEEE 802.3by 25 Gigabit Ethernet;	10G SFP+ Fiber Optics/ DACs; 1G SGMII Based SFP for Fiber Optics and RJ-45 Copper; 25G SFP28 Fiber Optics and DACs;	Standard - 6x 10Mb/100 Mb/1000Mb RJ-45; Optional traffic ports depending on traffic module selection.
<b>Dedicated 10/100/1000Mbps BMC/ IPMI Port/Management Port</b>	10/100/1000BASE-T Category 5, Category 5e, Category 6 UTP	Copper RJ-45	1
<b>COM Port</b>	115200 Baud 8 Bit Data No Parity 1 Stop Bit	Serial	1
<b>Rear Panel USB Port</b>	USB 2.0 High Speed	USB 2.0	4
<b>VGA Port</b>	VGA DB-15 Connector	DB-15	1
<b>2.5" Fixed Internal Hard Drive with RAID Support</b>	Fixed Internal SATA-III Drives; Optional support RAID-0,1	2.5" Hard Drive/SSD	Up to 4
<b>Front Panel Accessible Power Button</b>	Push Button	Push Button	1
<b>Front Panel Accessible Reset Button</b>	Reset Button	Reset Button	1
<b>Front Visible LED Panel</b>	System Information LED LAN Activity LEDs HDD Activity LED Power LEDs	LEDs	5
<b>Power Supply</b>	200W Power Supply 110-240V AC 50-60Hz Class I	1	1

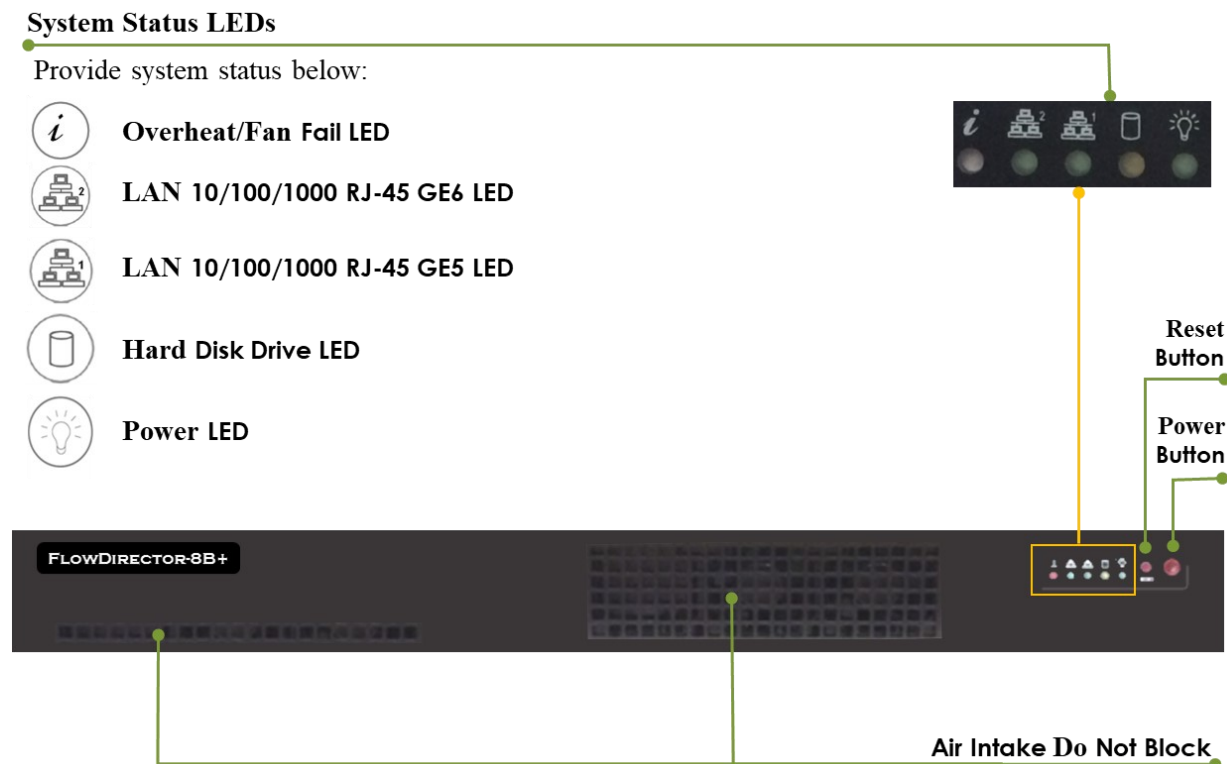
# FlowMagic-8B/8B+ Rear Panel Features

## Traffic Module—iNIC-T20G-SFP\*



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

# FlowMagic-8B/8B+ Front Panel Features



## FlowMagic-8B/8B+ Standard Peripherals

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

## FlowMagic-8B/8B+ Physical and Environmental Specification

Item	Description
<b>Dimension</b> (Width x Depth x Height)	19 x 11.3 x 1.7 (inches) 483 x 287 x 43 (millimeters)
<b>Net Weight</b>	14 (pounds) / 6.4 (kilograms)
<b>Environment</b>	Operating Temperature: 0° ~ 40° C (32° ~ 104° F) Non Operating Temperature: -40° ~ 70° C (-40° ~ 158° F) Humidity: 20 ~ 90% (Non-condensing)

## FlowMagic-8B/8B+ Ordering Information

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

Part Number	Traffic Ports	Port Specification	Software Package
<b>FlowMagic-8B</b>	6x 10Mb/100Mb/ 1Gb RJ-45	6x 10Mb/100Mb/1Gb RJ-45 Ports	Foundation Package
<b>FlowMagic-8B+[-]</b>	6x 10Mb/100Mb/ 1Gb RJ-45 + Based on Module selection	6x 10Mb/100Mb/1Gb RJ-45 Ports + Based on module selection	Foundation Package

## FlowMagic-8B/8B+ Available Traffic Modules

Part Number	Capture and Traffic Processing Ports	Port Specification
<b>iNIC-T2G/T4G/T6G-RJ45</b>	2, 4 or 6	10Mb/100Mb/1Gb RJ45
<b>iNIC-T2G/T4G/T6G-SFP</b>	2, 4 or 6	10Mb/100Mb/1Gb SFP Fiber
<b>iNIC-T20G-RJ45</b>	2	10Mb/100Mb/1Gb/10Gb RJ45 Copper
<b>iNIC-T20G-SFP</b>	2	1Gb/10Gb SFP/SFP+ Fiber
<b>iNIC-T40G-SFP</b>	4	1Gb/10Gb SFP/SFP+ Fiber
<b>iNIC-T50G</b>	2	1Gb/10Gb/25Gb SFP/SFP+/SFP28 Fiber