FlowMagic-2100P

Next Generation Portable Network Data Capture, Snapshotting and Analytical 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-2100P is the next generation network visibility platform that delivers unprecedented feature set, performance and port density within an rugged and portable chassis for field operation. The FlowMagic-2100P supports up to five traffic modules with a variety of port specifications which provide seamless connectives to networks running at 10Mb/100Mb/1Gb RJ45, 100Mb/1Gb Fiber, 10Gb LAN, 9.953Gb WAN, 25Gb, 40Gb and 100Gb.
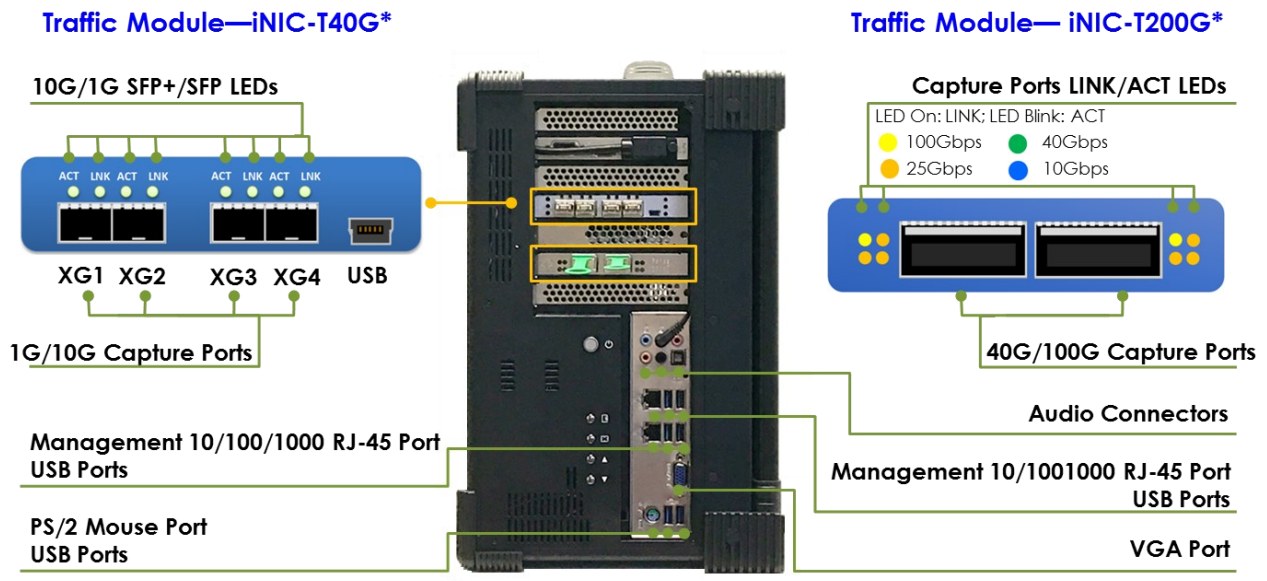
Main Features and Benefit Highlights

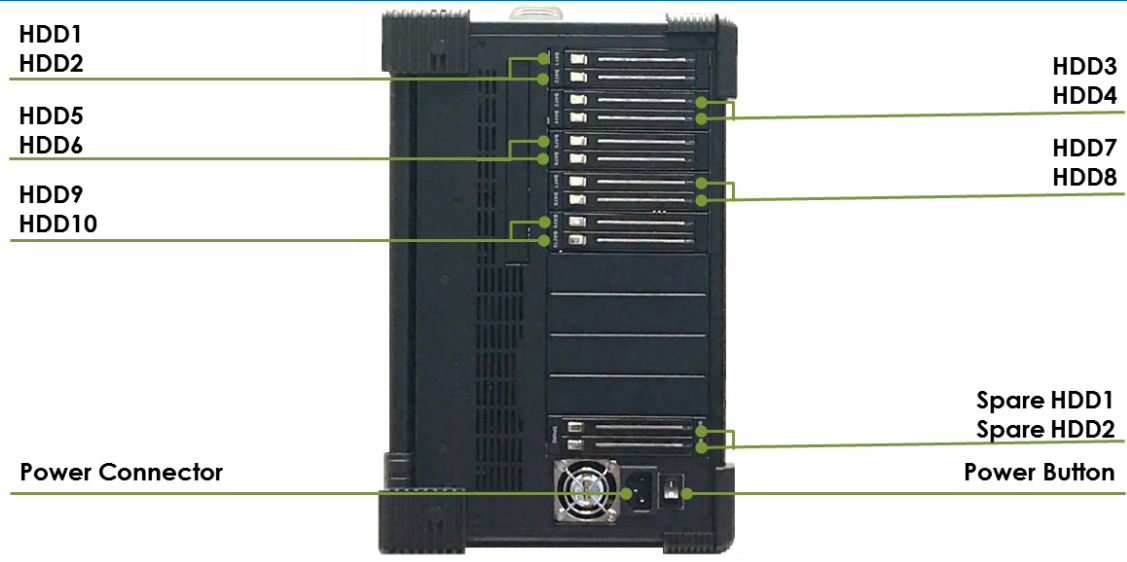|	Features	Benefits
Unprecedented Packet Capture Performance with High Resolution Time Stamp	Up to five traffic modules with a wide selection of port specifications, varies from RJ-45, SFP, SFP/SFP+, SFP/SFP+/SFP28, QSFP+ to QSFP+/QSFP28.	Enables customer to simultaneously monitor mission critical equipment and gaining 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, timeline based analysis and correlation, rich statistics, end point analysis, flow extraction, data volume reduction and compression.	Ideal for service provider and enterprise to gain real time view and take action based on insights provided by the platform.
Scale Up Storage Architecture	Provide seamless support to 10 2.5 inches storage bays; Flexible software defined mapping between drives and capture domain	Cost saving and on demand capacity scaling over the storage capacities.
Light Weight, All-in-One Rugged Portable Solution	Light weight, all-in-one rugged portable chassis with the wheeled carrying case.	Tailored for field engineers and trouble shooting in a dynamic environment.
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	Leveraging latest generation server processor technologies with power efficiency and high reliability.	• Reduce CAPEX and OPEX • High Availability by Design

FlowMagic-2100P 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
Central Processor Unit	Intel X86 Multi-core 64bit Processors	XEON E5 V4 8 Core	1
System Memory and Capture Buffers	LR-DDR4 High Speed Memory	DDR4 2133	Up to 1024GB
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	Shared
USB Port	USB 3.0 High Speed	USB 3.0	6
DVI Port	DVI-D, DVI-I Connectors	DVI	1
2.5" Hard Drive Bay	SATA-III 6Gb Hot Swappable Drive Bays	2.5" Hard Drive Bay	10
2.5" Hard Drive Bay	Non-Connected Drive Bays	2.5" Hard Drive Bay	2
System Hard Drive	PCIe Based Fixed 1.2TB Internal Hard Drive Bays	2.5" Hard Drive	1
Power Button	Push Button	Push Button	1
Visible LED Panel	Power LED HDD Activity LEDs	LEDs	2
Power Supply	600W Power Supply 100-240VAC 50-60Hz, Auto Switch	1	1
Keyboard/Mouse	104 US Keyboard with Touchpad	RJ-45	1

FlowMagic-2100P Left Panel Features

Traffic Module—iNIC-T40G*

10G/1G SFP+/SFP LEDs

ACT LNK ACT LNK   ACT LNK ACT LNK

XG1 XG2   XG3 XG4   USB

1G/10G Capture Ports

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

PS/2 Mouse Port
USB Ports

Traffic Module— iNIC-T200G*

Capture Ports LINK/ACT LEDs

LED On: LINK; LED Blink: ACT
- 🟡 100Gbps   🟢 40Gbps
- 🟠 25Gbps   🔵 10Gbps

40G/100G Capture Ports

Audio Connectors

Management 10/1001000 RJ-45 Port
USB Ports

VGA Port

FlowMagic-2100P Right Panel Features

HDD1
HDD2

HDD5
HDD6

HDD9
HDD10

HDD3
HDD4

HDD7
HDD8

Spare HDD1
Spare HDD2

Power Connector

Power Button

FlowMagic-2100P Front Panel

Left Panel →   ← Right Panel

Reset Button

HDD LED

Power LED
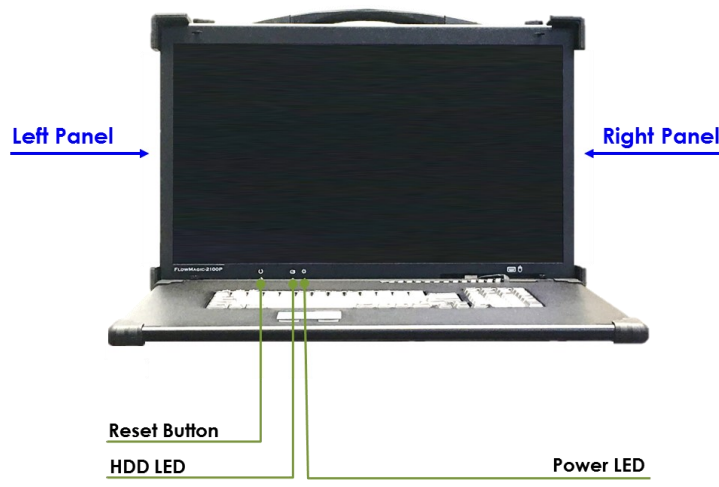
FlowMagic-2100P Foundation Package

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	Highly optimized line rate traffic capture package including capture filter, time stamping, capture size limiter, header-body split, source port tagging etc.
Traffic Snapshotting Package	Traffic snapshotting for up to 2TB of cyclic buffer; Best of the class capture performance over 40Gb and 100Gb interfaces; Integrated snapshot storage management; Real time view of snapshotting buffer usage.
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	Store captured traffic into local hard disk drives; Automatic space recycling is supported.
Storage Benchmark Package	Embedded storage benchmark tool to evaluate the performance of attached data drives under installed drive model (s).
Packet Decoder Crystal View 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 Analytic and 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-2100P Optional 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-2100P Standard Peripherals

Part Name	Quantity
UTP Cat 6. Ethernet Cable	1
Power Cord	1
Carry Case with Wheels	1
CD (User Manual, software package)	0 or 1
USB System Recovery Thumb Drive	0 or 1

FlowMagic-2100P Physical and Environmental Specification

Item	Description
Dimension (Width x Depth x Height)	21 x 9 x 15 (inches) 524 x 226 x 372 (millimeters)
Net Weight	42 (pounds)/ 19 (kilograms)
Environment	Operating Temperature: $0° \sim 40°$ C ($32° \sim 104°$ F) Non Operating Temperature: $-40° \sim 70°$ C ($-40° \sim 158°$ F) Humidity: $20 \sim 90\%$ (Non-condensing)

FlowMagic-2100P Primary Order Information

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

Part Number	Traffic Ports	Port Specification	Software Package
FlowMagic-2100P-[]	Based on Configuration	Based on module selection	Foundation Package

FlowMagic-2100P 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