

FlowIntelligence™ 8600 MCA

Modular Chassis Architecture - Adaptive Cyber Defense Platform



Key Features

- **True Wire Speed Performance at 10Gbps**

State-of-the-art modular chassis architecture that delivers unparalleled performance and processing for FlowIntelligence, Open source, proprietary, and third-party commercial applications with BiviOS™ advanced packet processing and application middleware.

- **Secure Linux Operating Environment**

Applications run on a secure, and performance optimized Linux® distribution with industry leading throughput, agility and capabilities.

- **Embedded Virtualization Support**

The platform delivers data center-grade embedded KVM virtualization support for simultaneously hosting non-packet processing applications

- **Robust, Service Provider-grade Platform**

Dual-redundant and hot-swappable power supplies, solid-state hard drives, redundant system configuration on M.2 storage for carrier-grade reliability and maximum up-time.

- **Scalable Compute Nodes**

Dual - socket, multi-core Intel® Gen-14 Xeon processors to provide unprecedented application performance, network throughput and processing efficiency for FlowIntelligence Cyber Sensor Suite as well as open source applications such as SNORT®, Suricata®, Zeek®, and others.



Typical User Deployments

- **Deep Packet Inspection**
- **Network Security and Event Monitoring**
- **Network Breach Detection and Prevention**
- **Network Threat Fusion**
- **Network Intelligence**
- **Network Flow Monitoring**
- **Cyber Security and Intelligence**
- **Network Malware Identification**
- **Network Sensor Application Consolidation**
- **Analytics Hosting**

High-Performance, Modular Cyber Security Platform

Scale as you grow - The FlowIntelligence 8600 Series Adaptive Cyber Platform is a scalable, modular, four-slot system for simultaneously hosting packet processing applications and analytics environments. It delivers unparalleled performance for the FlowIntelligence Cyber Sensor Suite of tools as well as open source, custom-proprietary, or commercial off-the-shelf (COTS) network security and cyber intelligence applications. It features the industry -proven BiviOS™ middleware for advanced packet processing and applications management for optimizing cyber applications and line-speed operations. The compute modules in the platform are optimized for packet processing through an extensively implemented and proven architecture which features multi-core Intel® processors, a robust Linux application environment and advanced packet processing system.

The FlowIntelligence 8600 Series platforms are created for the most demanding cyber operations environments via three compute module configurations:

- FlowIntelligence c8610S module for enterprise and data center operations supporting a single lightweight cyber sensor application workload at 10 Gbps
- FlowIntelligence c8610SE module for enterprise and data center operations supporting a single moderately processor-intensive cyber sensor application workload at 10 Gbps
- FlowIntelligence c8610SX module for enterprise and data center operations supporting a processor-intensive cyber application workload at 10 Gbps or data analytic nodes with ingest, collection and retention services

The platform is designed specifically to provide wire speed deep packet inspection and applications processing with uncompromising performance and unrivaled flexibility. The FlowIntelligence 8600 Series architecture with dual sockets per compute node allows cyber security and network information assurance professionals to rapidly implement advanced cyber and network application solutions with remarkable speeds of 10 Gbps of packet processing capability. All of this is done in a high-density, modular chassis architecture platform with a lower total cost of ownership than alternative solutions.

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FlowIntelligence 8600 Series Specifications

Platform Features	c8610S	c8610SE	c8610SX
Compute Node	Dual Intel® 20 Core Processors	Dual Intel® 24 Core Processors	Dual Intel® 28 Core Processors
Memory (per Node)	256GB	512GB	1024GB
Storage (per Node)*	Dual M.2 480GB (RAID-1) Boot and Operating System Storage Dual 3.86TB (Raid-1) SATA Fast Read SSD's (Total of 24 x 2.5" SSD or NVMe drives supported in the 8600 Platform and six per compute node)		
Network Interfaces Options (per Node)	2 x 1/10 Gbps SFP+ Interfaces or 4 x 10GbE Copper		
Data Interfaces Options (per Node)	2 x 1/10Gbps SFP+ Interfaces or 4 x 10GbE Copper		
Management Interfaces (per Node)	1 x 1GbE Copper RJ45 Interface		
Cooling	4 x 6056 dual-rotor non-hot swappable fans		
Power	Dual 240 VAC 2400W Hot Swappable Redundant PSU's		
Chassis Size	3.41" x 17.63" x 31.1" (2 Rack Units)		
System Weight	96.1 Lbs		
Safety Compliance	USA/Canada: UL/CSA 60950-1		
Electromagnetic Compliance	US/Canada: FCC Part 15 and GR-1089 Europe: EC Directive, EC Council Directive 2004/108/EC, ETSI EN300 386 International CISPR 22 Class A and CISPR 24		

The Bivio Networks Solutions Architect will assist your organization with properly configuring the 8600 platform to meet the operational requirements for packet processing and analytics environment. ** Additional Storage is available for these platforms. Ask your Bivio Sales team for more information about optional storage configurations.*

About Bivio Networks

Bivio Networks is dedicated to providing leading-edge networking products that enable enterprise, government agencies and service providers to operate, control, monitor and secure critical cloud and network infrastructure. A leader in cloud, cyber intelligence, cyber security and network control solutions, Bivio products are deployed in a wide range of environments by a global customer base including enterprises, leading government agencies, and service providers. Bivio is privately held and is headquartered in the San Francisco Bay Area.

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