Data Sheet

Node Blade Chassis

iboss
THE DISTRIBUTED GATEWAY PLATFORM

The iboss Distributed Gateway Platform
Local Gateway for Large Platform Package

Advantages of the Node Blade Chassis

- Delivers advanced security across large distributed organizations without increasing hardware footprint

- Lowers TCO while increasing ROI by reducing power consumption and the need for rack space or load balancers

- Allows you to keep your data local to comply with regulatory or corporate requirements without consuming resources and increasing costs

- Offers maximum flexibility with a large variety of configuration options

- Gives customers with high capacity environments the ability to secure large volumes of data while keeping hardware and power requirements at a minimum

- Provides seamless scalability; slide in a new node blade to increase capacity instantly

- Offered as part of the iboss Distributed Gateway Platform subscription, eliminating the need to buy and manage appliances

Local Gateways Secure Large Organizations, No Matter the Scale

Whether you're a large enterprise organization supporting multiple locations, or an MSP/ISP servicing many customers, providing drop-in replacement cybersecurity across a widely-distributed organization typically requires deploying racks of hardware to service them. This not only consumes power and bandwidth; it can eat up space in your already crowded datacenter. The iboss Node Blade Chassis, included in the Large Platform package, provides the solution, allowing you to keep your data within corporate boundaries, while eliminating CAPEX and minimizing the impact on IT resources.

Node Blade Chassis Features

The iboss Node Blade Chassis is deployed as an optional local gateway with the Large Platform package, and provides large organizations with unmatched scalability, flexibility, and efficiency by delivering on-prem, advanced cyber threat protection using less power, enabling greater throughput, and minimizing hardware footprint. As with all iboss deployments, all nodes and gateways are completely non-shared and are managed through a multi-tenant platform.

The Node Blade Chassis is a single rack-mountable chassis that is capable of housing many node blades within it. Node blades slide easily into the chassis, offering instant scalability as your organization's requirements grow, without load balancers. The iboss Node Blade Chassis comes in two form factors, the NBC-14, capable of housing 14 node blades in a 3U chassis and the NBC-28, that houses 28 node blades within its 6U chassis.

Single Node Blades and Multi Node Blades

There are two types of node blades that can be used in a Node Blade Chassis deployment. A **Single Node Blade** is a blade that houses one node. These are ideal when maximum performance is required, for example when scanning large volumes of network traffic. **Multi Node Blades** host up to four (virtual) nodes on the same hardware blade and can be used to completely isolate traffic and reporting data within the same physical hardware. This makes them an ideal choice for service providers tasked with securing multiple customers, or other consortiums that want to be able to offer services to separate entities.

MODEL	INLINE DEPLOYMENT	OUT OF BAND DEPLOYMENT	FORM FACTOR
NBC-14	• 14 Single node blades • Up to 14 Gbps of web traffic processing • Gateway nodes only	• 14 single node blades or 14 multi node blades (totaling 56 nodes) • Up to 80 Gbps of web traffic processing (using multi node blades) • Heterogeneous node types	
NBC-28	• 28 single node blades • Up to 28 Gbps of web traffic processing • Gateway nodes only	• 28 single node blades or 28 multi node blades (totaling 112 nodes) • Up to 160 Gbps of web traffic processing (using multi node blades) • Heterogeneous node types	

HARDWARE SPECIFICATIONS	NBC-14 (3U)	NBC-28 (6U)
Blade Module Support	14 × Hot-Swap iboss Node Blade Modules	28 × Hot-Swap iboss Node Blade Modules
CPU	14 × Intel Xeon Processor E5-2630v3	28 × Intel Xeon Processor E5-2630v3
Hard Drive	14 × Intel DC S3500 240GB SSD	28 × Intel DC S3500 240GB SSD
Memory	14 × 32GB DDR4 2133MHz	28 × 32GB DDR4 2133MHz
Workstations	100,000+	
Concurrent TCP/IP Connections	4,000,000/node	
Throughput	Up to 14 Gbps when fully populated with Single Node blades; up to 80 Gbps with Multi Node Blades	Up to 28 Gbps when fully populated with Single Node blades; up to 80 Gbps with Multi Node Blades
Rackmount Chassis	3U Full Size	6U Full Size
Dimensions	36.10 in × 17.67 in × 5.215 in 917 mm × 449 mm × 132.5 mm	10.43 in × 17.67 in × 34.4 in 265 mm × 449 mm × 875 mm
Weight	140 lbs.	280 lbs.
Power Supply	4 × Hot-Swap High-Efficiency 2000W Redundant Fail-Over Power Supplies	
Power Input Current	9.6 – 12A	
Power Input Voltage	100 – 240V, 60 – 50Hz, 4 Amp Max	
Operating Environment	Temp: 0° to 50° C (up to 5000m); Relative Humidity: 80% Operating	
Network Switch Module	When deployed out of band: Broadcom BCM56846 10GbE Low Latency Switch, 2 × 40Gbps QSFP or 4 × 10Gbps SFP+ uplinks When deployed in-line: Intel FM5224 GbE Low Latency Switch, 1Gbps RJ45, 2 × 40Gbps QSFP or 8 × 10Gbps SFP+ uplinks	

About iboss

iboss has created the first and only Distributed Gateway Platform specifically designed to solve the challenge of securing distributed organizations. Built for the cloud, iboss leverages an elastic, node-based architecture that provides advanced security for today's decentralized organizations and scales to meet the ever-increasing bandwidth needs of tomorrow. The iboss Distributed Gateway Platform is backed by more than 100 patents and protects over 4,000 organizations worldwide, making iboss one of the fastest growing cybersecurity companies in the world.

To learn more, visit www.iboss.com **or contact iboss at** sales@iboss.com

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