

# iboss Node Blade Chassis

## Secure Large Networks with Minimal Hardware Footprint

Whether you're a large enterprise organization supporting an extensive network with high bandwidth, or an MSP/ISP servicing many customers, providing on-premises cybersecurity to high-capacity networks typically requires deploying many hardware appliances to service them. This not only consumes power and creates management overhead; it can eat up space in your already crowded datacenter. The iboss Node Blade Chassis offers revolutionary technology that allows you to keep your data within corporate boundaries, while minimizing CAPEX, eliminating load-balancers, and minimizing the impact on IT resources.

## Node Blade Chassis Features

The iboss Node Blade Chassis provides large organizations with unmatched scalability, flexibility, and efficiency by delivering on-premises, advanced cyber threat protection using less power, enabling greater throughput, and minimizing hardware footprint. 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. 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. The Node Blade Chassis automatically distributes bandwidth load across the node blades, eliminating the need for expensive and cumbersome load balancers, reducing costs and management overhead.

## 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 the maximum performance per node is desired, for example when scanning large volumes of network traffic.

The second type of node blade is a **Multi Node Blade**, which hosts up to four (virtual) nodes on the same hardware blade. Multi Node Blades can be used to completely isolate traffic and reporting data within the same physical hardware, making 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.



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## Node-Based Platform

iboss redefines the way network cybersecurity is delivered and managed. iboss advanced cybersecurity technology is delivered via a node-based platform that provides greater security, flexibility, and scalability than legacy on-premises appliances and shared cloud network security solutions. iboss gives each organization a dedicated, non-shared, node collection, providing complete isolation and ensuring your data and capacity never overlaps with that of any other customer. The node collection can consist of on-premises nodes, cloud nodes, or a combination of both, providing unmatched deployment flexibility and security.

## Advantages of the Node Blade Chassis

- **Delivers advanced security across large distributed organizations** without increasing hardware footprint
- **Lowers TCO and increases 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 heavily 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

MODEL	INLINE DEPLOYMENT	OUT OF BAND DEPLOYMENT	FORM FACTOR
<b>NBC-14</b>	<ul style="list-style-type: none"> <li>• 14 Single node blades</li> <li>• Up to 14 Gbps of web traffic processing</li> <li>• Data Scanning nodes only</li> </ul>	<ul style="list-style-type: none"> <li>• 14 single node blades or 14 multi node blades (totaling 56 nodes)</li> <li>• Up to 80 Gbps of web traffic processing (using multi node blades)</li> <li>• Heterogeneous node types</li> </ul>	
<b>NBC-28</b>	<ul style="list-style-type: none"> <li>• 28 single node blades</li> <li>• Up to 28 Gbps of web traffic processing</li> <li>• Data Scanning nodes only</li> </ul>	<ul style="list-style-type: none"> <li>• 28 single node blades or 28 multi node blades (totaling 112 nodes)</li> <li>• Up to 160 Gbps of web traffic processing (using multi node blades)</li> <li>• Heterogeneous node types</li> </ul>	

## 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	<i>When deployed out of band:</i> Broadcom BCM56846 10GbE Low Latency Switch, 2 × 40Gbps QSFP or 4 × 10Gbps SFP+ uplinks <i>When deployed in-line:</i> Intel FM5224 GbE Low Latency Switch, 1Gbps RJ45, 2 × 40Gbps QSFP or 8 × 10Gbps SFP+ uplinks	

### About iboss Cybersecurity

iboss Cybersecurity defends today's large, distributed organizations against targeted cyber threats which lead to data loss, with the iboss next-gen Secure Web Gateway Platform, leveraging innovative cloud architecture and patented advanced threat defense technologies. iboss advanced solutions deliver unparalleled visibility across all inbound/outbound data channels, and include security weapons that reveal blind spots, detect breaches and minimize the consequences of data exfiltration. With leading threat protection and unsurpassed usability, iboss is trusted by thousands of organizations and millions of users.