DATA SHEET

Series-8 NBC-14

Powering Secure, High-Capacity Networking across Hybrid and Multi-Cloud Environments

NBC-14 Description

The Node Blade Chassis (NBC-14) is a scalable, high-capacity appliance designed for data centers, delivering seamless integration with the iboss Zero Trust SASE platform. Engineered for demanding environments, the NBC-14 supports advanced ZTNA, SD-WAN, and secure cloud interconnectivity, enabling high-throughput connections across data centers, cloud environments, and branch locations.

Managed through the iboss cloud, the NBC-14 simplifies operations with centralized control and unified Zero Trust policies. Its modular design ensures scalability, while advanced site-to-site Virtual Path capabilities provide secure, efficient connectivity. Ideal for enterprises managing complex hybrid environments, the NBC-14 delivers consistent security and performance across users, devices, and locations.

NBC-14 Chassis Specifications

NBC-14 Chassis	
Form Factor	4U Rackmount Server
Dimensions (WxDxH)	429mm x 813mm x 178mm (16.87” x 32” x 7”)
Weight	140 lbs.
LED	Power / Fault / Power
Series-8 Blade Slot Capacity	14
Total Output Power and Input	Up to 4 x 2200 W Power Supplies with Input 100 - 240Vac
Cooling	Up to 4 cooling fans in PWS modules
Heat Dissipation	31,280 BTU/h (7,820 BTU/h x 4 power supplies)
Operating Environment	Temperature: 0° - 40°C (32° - 104°F), Humidity: 0% – 90% (NC)
Storage Environment	Temperature: -40°C - 70°C (-40°F - 158°F), Humidity: 5% - 95% (NC)
Heat Dissipation	31,280 BTU/h (7,820 BTU/h x 4 power supplies)
Management Connectivity	2 x LAN Ports

DATA SHEET

Series-8 NBC-14

Powering Secure, High-Capacity Networking across Hybrid and Multi-Cloud Environments

NBC-14 Switch Module

The NBC-14 Switch Module provides the interconnectivity for external networking as well as each of the Gateway Blades (via the chassis backplane). The NBC-14 Chassis can support up to two (2) Switch Modules depending on the desired solution design.

NBC-14 Switch Module	
Connectivity Options	4 x 100G/40G Ethernet Uplinks, each split into 4 x 25G or 4 x 10G uplinks (SFP options –see below)
	1 x Gigabit Ethernet Uplink (RJ45)
SFP Options	10G: SR / LR / DAC
	40G: QSFP (DAC) / QSFP (fiber)
	100G: QSFP SR (fiber) / QSFP SR (DAC)
Layer-2 Features	4K VLANs
	Spanning Tree Protocol (802.1D),
	Rapid Spanning Tree Protocol (802.1w)
	IEEE 802.lQ VLANs/ port-based VLANs
	Multiple Spanning Tree Protocol (802.1s)
	Jumbo frames up to 9KB
	IEEE 802.1AX LAG
	IEEE 802.3ac VLAN tagging
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Maximum Switch Capacity	1922 Gbps

NBC-14 Series-8 Gateway Blade

The quantity of Node Blade Chassis (NBC-14) Gateway Blades required (up to 14) is dependent on overall capacity and capabilities required within the desired solution design.

Series-8 Gateway Blade	
Buttons	Power On/Off, KVM
LEDs	Power, UID / KVM, Network Activity, Fault
Processor	Intel® Xeon® Silver 4210, 13.75M Cache
Cores / Threads	10C/20T 2.2Ghz (3.2Ghz) - TDP: 85W
Memory	48GB VLP ECC DDR4 RDIMM
Storage	240GB
Network Interfaces	2 x 10G LAN with Intel X722
Blade Throughput	Up to 3Gbps