PLATINA

Platina PS-3001-32C

Cloud Infrastructure Automation

- Fully managed solution for rapid infrastructure deployment and service enablement
- Cluster control functions to automate orchestration from bare metal server to containers
- Full L3 connectivity within and across clusters
- Cross-cluster management and analytics for real-time streaming

Actionable Insights from Full Stack Streaming Telemetry

- Modern, scalable, and elastic management cluster
- Enhanced visibility into compute, storage, and network resource pools
- Live monitoring with real-time streaming of resource state
- Forensic troubleshooting with historical data
- Self-healing through automation powered by machine learning

Platina delivers the first optimized, turnkey approach to deploying and managing clusters. The solution streamlines and automates operations within and across clusters to enable a flexible and highly scalable edge cloud for any organization.

The Platina Command Center (PCC) is a single pane of glass for policy management, visibility and insight across clustered pools of compute, storage, and networking resources. The PCC ingests data streamed from the Platina PS-3001-32C, which serves as the controller of a cluster.

The Platina PS-3001-32C provides an abstraction to represent the cluster. A single Platina node can be viewed as a single representation of a datacenter, all of which is consistently managed as server-native resources.

The Platina PS-3001-32C performs all the necessary functions to operationalize unconfigured compute, storage and networking resources as useful, workload-ready clusters. This helps dramatically simplify operations so clusters can be rapidly rolled out with the lowest first-in cost, CapEx and OpEx. The clusters can be flexibly viewed and managed as multi-tenant workload environments ranging from bare metal to container-based microservices.

The Platina PS-3001-32C platform performs network functions for a cluster using powerful merchant switching silicon. This helps to avoid the management burden of traditional Top-of-Rack switches - devices that are managed differently and separately from the servers and storage within the cluster - traditionally used in legacy deployment.

Hardware Specification	PS-3001-32C-AC-F PS-3001-32C-AC-R	PS-3001-32C-DC-F PS-3001-32C-DC-R
Front Panel Interface	32xQSFP28 (Supports 32x100GE, 64x50GE, or 128x25GE/10GE)	
Management Interface	1GE(RJ45), Console, USB	
Switch ASIC	Broadcom Tomahawk family	
CPU	CPU: Intel Xeon D1500 Broadwell DE DRAM: 16GB+ Storage: 128GB SSD+	
Power Consumption	220Watt Typical, 410Watt Maximum	

Performance

Throughput	6.4 Tbps, 2B pps
Latency	800ns

Physical Specification

Dimension	17.32 x 1.75 x 16.88 in (44x 4.4 x 42.88cm)	
Weight	20.9 lbs (9.5 kg)	
Fan	4 dual-fan modules (3 + 1 redundancy) Front-to-back or Back-to-Front airflow	4 dual-fan modules (3 + 1 redundancy) Front-to-back airflow
Humidity	Operating: 10% to 95% (non-condensing)	
Temperature	Operating: 0°C to 40°C, 3km Storage: -40°C to 70°C	

Power Supply Specification

Input	100 to 240V_{ac}, 50/60 Hz, 7.5A Max	-40 to -72V_{dc}, 28A Max
Output	DC 12V, 45A	DC 12V, 69A

Regulatory Compliance

EMC	EN55032 Class A EN61000-3-2/EN61000-3-3 EN55024 FCC P15B Class A ICES-003 BSMI (CNS 13438) Class A CCC (GB9254) Class A AS/NZS CISPR32 VCCI KN32/KN35
Safety	UL60950-1 IEC/EN 60950-1/A2 BSMI (CNS 14336-1) CCC (GB4943) AS/NZS 60950.1 TEC BIS

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