



# PENSANDO DISTRIBUTED SERVICES PLATFORM

## Smart IO

### OVERVIEW

Do you need edge acceleration in your data center? The Pensando Distributed Services Platform for Hewlett Packard Enterprise servers provides a powerful suite of software-defined services, like firewall, encryption, and tunnelling directly to the server which dramatically boosts network and security performance by moving those services to the server edge, where the transition between network and server occurs.

This revolutionary approach eliminates the need for an assortment of discrete appliances throughout the data center by integrating networking and security functions into a single device residing in a single server, tightly coupling policies to just that server and its users. No longer are server and user demands queuing behind unrelated demands on shared appliances. Coincidentally, because the functions are resourced at the server edge, performance and capacity scaling are incremental, observability is pervasive and granular, and latency is significantly reduced.

### FEATURES

#### **Always-on Telemetry and Deep Observability**

Pensando Distributed Services Platform brings sophisticated wire-speed telemetry to HPE servers, providing real time observability and insights for network and storage, without affecting application performance.

Always-on telemetry at the server edge enables proactive end-to-end

troubleshooting and problem reporting, minimizing down-time and significantly reducing mean time to repair (MTTR).

**Micro Segmentation for KVM and Containerized Application Tiers**

The Pensando Distributed Services Platform isolates KVM/Hyper-V and containerized application tiers from each other on Hewlett Packard Enterprise servers and achieves “zero-trust security” enforced within each machine by the Pensando Distributed Services Card (DSC).

Microsegmentation can be applied – per VM, container, or workload – on the DSP subsystem with full isolation from host-based vulnerabilities.

**Distributed Stateful Firewall for Bare-Metal, KVM, and Containerized Environments**

Pensando DSP enables policy enforcement and permitted list communications between servers within the data center (East-West security).

Pensando DSC implements an enterprise-class, centrally managed stateful firewall at each server edge.

Advanced firewall functionality includes Application Layer Gateway (ALG), and packet-based DDoS attack protection (Flood, TCP SYN, fragmentation, Ping-of-Death (PoD), and more).

**Simplified Infrastructure Operations**

Pensando DSP eliminates multiple discrete network and security appliances such as an East-West stateful firewall.

Eliminates complexity and latency associated with network tromboning-effect through multiple appliances.

A simplified architecture and always-on visibility results in fewer outages and faster mean time to repair (MTTR).

Replaces multiple appliances, reducing costs and complexity, all while improving security.

Pensando DSP lowers total cost of network and security services per server.

**Technical specifications**

**Pensando Distributed Services Platform**

<b>Port speed</b>	25 Gb
<b>Number of ports</b>	2
<b>Form factor</b>	Standup Pcie, Half-height half-length
<b>Power</b>	<21W
<b>License Type</b>	E-RTU
<b>Support Coverage</b>	24x7 and 5, 4, 3, and 1 year Licenses
<b>Subscription Term</b>	1, 3, 4, and 5 year terms



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
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- Retire and sanitize
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