DATASHEET

HRW-CN 1500

HRW Xeon D1500 Compute Node

Half Rack Width (HRW) Xeon D1500 Compute Nodes bring a robust enterprise-class cloud computing to the tactical edge of network applications. The HRW-CN 1500 provides robust computing and real-time data processing at the tactical edge, resulting in reduced command and control (C2) latency and improved situational awareness.

HRW Xeon D1500 Compute Nodes are small form factor enterprise-class Intel Xeon D1500 processorbased servers with enough processing power, memory and storage to support running multiple virtual machines (VMs) on a single piece of hardware. HRW-CN 1500s significantly reduce the overall size, weight, power consumption and cost of deployable, largescale communications solutions. Providing support for most hypervisors and hyper-converged hypervisors, the potential applications and use cases for the Compute Nodes are endless.

Virtual Machine Hypervisors

HRW-CN 1500 support an array of commercially available hypervisors and hyper-converged hypervisors, software-based IP networking appliance virtual machines (VMs), and application-based VMs. Supported hypervisors include VMware (ESXi), Microsoft (Hyper-V), Nutanix, Citrix (XEN), IAS ROS, Cisco (NFVIS), and Linux (KVM).



Scalability with Tactical Field Office

The HRW-CN 1500 is one of the family of Half Rack Width appliances designed for use as standalone desktop appliances, within the Expeditionary Networking Kit (XNK) 2U or 3U Chassis System or the XNK–MINI, a carbon fiber VIP roller board case that is small enough to stow in an aircraft overhead storage bin.

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Removable Storage

HRW Compute Nodes offer a removable disk drive cartridge that holds up to four 2.5" spindle or SSD drives. The cartridge feature allows a user to remove all drives in a single module quickly and easily without tools, simplifying the transportation of compute modules used on classified networks, as all non-volatile memory is removed.

Applications/Benefits

- Signal and image data processing and storage
- Virtual Desktop Infrastructure (VDI) solutions
- Modular Mobile Solutions
- Rapid, scalable, enterprise IT deployment
- Supports tactical use cases

Specifications

- D-1500 series 8.3 x 1.6 x 11 inches (WxHxD)
- Operating Temperature: 0°C ~ +60°C
- Wide Range Dirty DC Input: 9 ~ 36 VDC
- Weight: 4.2 lbs.

Processor	Cores	Threads	Max RAM	CPU Power Usage	NVMe
XEON D-1541	8	16	128GB	35 Watts	No
XEON D-1567	12	24	128GB	45 Watts	No
XEON D-1587	16	32	128GB	65 Watts	No

Key Features

- Supports both hyper-converged and traditional bare metal hypervisors (ESXi, HyperV, etc.)
- True enterprise-class performance, with 10 Gigabit and Gigabit interfaces and packet processing to match
- Toolless removable hard disk cartridge design (2.5" SSD or HDD up to 11mm tall)
- Half Rack Width form factor (HRW) Operates stand-alone as a desktop appliance, in Expeditionary Networking Kit (XNK) Chassis, or the XNK–MINI Chassis system (FAA airline overhead compliant)
- Temperature responsive cooling fans, ensuring the quietest operation possible
- Up to 16 cores / 32 threads Intel XEON processors
- Up to 128GB of DDR4 RAM
- OUSB 2.0/3.0
- Up to 4 SSD/HDD drives (Current state of the art is 15TB per drive, 8TB per drive or high use drives)
- Up to 16 cores / 32 threads Intel XEON processors

