DATASHEET

SDNA-HRW-BANKS

Software Definable Network-Appliance™

The latest cutting-edge addition to the portfolio of Software Definable Networking Appliances, the SDNA-HRW-BANKS, combines the capabilities of an "all WAN technology consuming" IP networking router, a 20 port Ethernet switch with 6 ports of 802.3at PoE, and an enterprise-class virtual machine server into a single Half Rack Width (HRW) appliance.

SDN-A Technology

A single SDNA-HRW-BANKS device can host a dozen or more Virtualized Networking Functions (VNFs) or virtualized application servers. VNFs can include IP routers, firewalls, certificate authorities, IDS/IPSs, Wi-Fi controllers, domain controllers, file servers, WAN acceleration VMs, RoIP media server VMs, and application server VMs, and many other virtualized appliances and servers. The SDNA-HRW-BANKS also provides Ethernet port density and Power over Ethernet to rival dedicated Ethernet switches.

Scalability with Expeditionary Networking Kits

The SDNA-HRW-BANKS is one of family of Half Rack Width appliances designed for use as standalone Networking Kit (XNK) or the XNK–MINI Chassis Systems. The XNK-Mini is a carbon fiber VIP roller board case that is small enough to stow in an aircraft overhead storage bin.

Virtualization

- Supports most commercial virtual machine hypervisors (VMware, Linux LVM, Xen, Hyper-V, virtual machine-based IP networking functions and application server technologies
- Up to a 16 Core/32 Thread Intel Xeon processor/ Up to 128GB of RAM/Up t0 16TB of NVME storage, capable of supporting MANY virtualized network functions or application servers running simultaneously

A single SDNA-HRW-BANKS device can host a dozen or more VNFs or virtualized application servers.

Key Features

- Most capable and versatile Software Definable Network–Appliance™
- Performs routing, switching, computing, and virtualization roles in a single, small, lightweight, low power processor and memory robust appliance
- True enterprise-class performance, with 10 Gigabit and Gigabit interfaces and packet processing to match
- Toolless removable NVME SSD design
- 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 (XNK-Mini is an FAA airline overhead compliant roller board case)
- Temperature responsive cooling fans, ensuring the quietest operation possible
- Additional product variants are:
- SDNA-XC-BANKS with (8) Ethernet interfaces - (2) 10G and (6) 1G interfaces

WAN Technology

- (2) 10 Gigabit routed Ethernet ports
- (18) Gigabit routed Ethernet ports
- Up to (3) 802.11ac, 802.11ax, and/or 3G/4G/5G cellular radios (Optional)
- Wi-Fi client and/or Access Point (Optional)

Specifications

- Size: 11″ x 8.4″ x 1.6″ (L x W x H)
- Weight: 4.5 pounds
- Intel Xeon® D 8, 12, and 16 core processors
- Intel® C3000 8, 12 and 16 core processors w/ QAT
- (2) 2.5″ SATA drive bays
- Micro USB console interface

Virtualization

- Supports most commercial vendors' software-based IP networking functions and application server based virtual machine technologies

Environmental

- Operating Temperature: 0°C ~ +75°C
- Wide Temperature, -45°C ~ +85°C, support with certain Xeon D and C3000 processors

Powers

- Wide Range Dirty DC Input: 9 ~ 36 VDC
- PSU: 83~264 VAC, 50/60Hz
- Power Consumption: Varies based on processor
- (6) 802.11at Power over Ethernet (PoE) ports