

DATASHEET

# SDNA-XC-BANKS



## Software Definable Network-Appliance™

The latest cutting-edge addition to the portfolio of Software Definable Network Appliances™, the SDNA-XC-BANKS, combines the capabilities of an "all WAN technology consuming" IP networking router, an 8 port Ethernet switch (with 4 802.3at PoE ports), and an enterprise-class virtual machine server into a single Expeditionary Communications (XC) form factor



## SDN-A Technology

A single SDNA-XC-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.

## Scalability with Tactical Field Office

The SDNA-XC-BANKS is one of a family of Expeditionary Communications (XC) appliances designed for use as standalone desktop appliances or within the

Expeditionary 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.

## 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 hard disk cartridge design
- Expeditionary Communications (XC) Form Factor - 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 variant:
  - SDNA-XCB-HRW with (20) Ethernet interfaces
  - (2) 10G and (18) 1G interfaces

# The XC devices have been designed from scratch, from the printed circuit board up.

## 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 to 30TB of SSD storage, capable of supporting MANY virtualized network functions or application servers running simultaneously

## I/O

- (8) RJ45 Ethernet Interfaces (all routed)
- (2) 10G Base -T RJ45 Ethernet
- (6) 1G Base -T RJ45 Ethernet
- (4) 802.3at PoE

## Configuration

- (1) Micro USB serial console
- (1) Mini Display Port
- (1) USB 3.0 interface

## Specifications

- Size: 7.6" x 5" x 2.5" (L x W x H)
- Weight: < 3 pounds
- Machined Aluminum enclosure
- Intel Xeon® D 8, 12, and 16 core processors
- Intel® C3000 8, 12 and 16 core processors w/QAT
- Up to 128 GB RAM

## Power

- Wide Range Dirty DC Input: 9 ~ 36 VDC
- PSU: 83~264 VAC, 50/60Hz
- (4) 802.11at Power over Ethernet (PoE) ports

## Environmental

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



## Expeditionary Communications (XC) Appliances

The XC family of devices usher in the next generation of small, rugged, scalable tactical edge of network use IP networking and computing solutions. The XC devices have been designed from scratch, from the printed circuit board up, and engineered with over a thirteen years of customer input and requirements collection. They are smaller, lower power, higher performing, more rugged, easier to use, easier to transport, more flexible in how they can be packaged or kitted, and the most scalable deployable communications in the market today.

Expeditionary Communications devices offered are:

- Software Definable Network–Appliances™
- Cisco routers & VPN gateways
- Cisco Ethernet switches
- Juniper SD-WAN solutions
- Aruba Mobility controllers
- Haivision video transcoders
- Power supply/uninterruptable power supplies
- High performance compute (Xeon D and C3000)
- Low power/high CPU core NVIDIA based appliances for AI and machine learning applications
- Radio over IP appliances
- Cellular/wireless routers