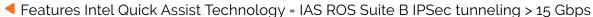# SDN-A™ X2100NT
Software Definable Networking - Appliance™

Specifications

- ◀ (2) 10Gigabit RJ45 Ethernet
- ◀ (2) 10Gigabit SFP+ Ethernet
- ◀ (9) Gigabit RJ 45 Ethernet
- ◀ (2) NVME m.2 SSD drive support
- ◀ (2) 802.11ac, 802.11ax, and/or 3G/4G/5G cellular radios
- ◀ DB9 console interface
- ◀ Wide range 9~36VDC input, Wide range 83~264 VAC, 50/60Hz PSU included
- ◀ Xeon D2146NT variant < 100 watts of power / Xeon D2146NT variant < 120 watts of power
- ◀ Features Intel Quick Assist Technology = IAS ROS Suite B IPSec tunneling > 15 Gbps
- ◀ Half Rack Width form factor: Operates stand alone as desktop appliance, in Tactical Field Office chassis, or the Tactical Field Office – MINI Chassis system (FAA airline overhead stowable)

Key Features

- ◀ Sub-U System's highest performing Software Definable Network – ApplianceTM
- ◀ Performs routing, switching, computing, virtualization roles in a single, small, lightweight, low power, processor and memory robust appliance.
- ◀ Intel 8 core/16 thread and 16 core/32 thread Xeon D2100 processor options (D2146NT & D2177NT)
- ◀ Up to 512GB DDR4 RAM, ECC Memory = Able to support 20 plus network function or appliance server virtual machines running simultaneously
- ◀ High speed NVME SSD drive support
- ◀ Half Rack Width form factor (8.4" wide, 12" deep, 1.6" tall)
- ◀ Temperature responsive cooling fans, ensure the quietest operation possible
- ◀ TEMPEST variant arriving Q4 2020

Applications

- ◀ Deployable communications applications where low power, small size, and light weight yet high-performance enterprise grade IT appliances are needed
- ◀ Can be paired with other Sub-U Systems Half Rack Width appliances to create a complete tactical command post/tactical field office in very small, single man portable, transit case
- ◀ Robust enough to support many hundreds of users, yet small and lite enough that small teams of users won't mind it has more far more processing capability then needed
- ◀ The ONLY product of its kind that exists, there is no rival solution

SUB U SYSTEMS

SDN-A™ X2100NT

Software Definable Networking - Appliance™

The SDN-A™ X2100NT is one of several Half Rack Width appliances designed for use as stand alone desktop appliances, within the Tactical Field Office 2U~42U Chassis System or the Tactical Field Office – MINI Carbon Fiber VIP case

TFO-MINI VIP Case

Software Definable Network-Appliances™

◄ HRW SDN-ATM BANKS
◄ HRW SDN-ATM Xeon D 2100NT w/Intel QAT
◄ HRW SDN-ATM C3000 w/Intel QAT
◄ HRW SDN-ATM MICRO

Ethernet Switches

◄ HRW Cisco ESS3300 – 26 RJ45 1G ports, 2 10G, 10 802.3at PoE ports
◄ HRW Netgear M4300 – 8 10G RJ45 & 8 10G SFP+
◄ HRW Netgear M4300 - 12 10G RJ45 & 12 10G SFP+
◄ HRW Netgear M4300 - 24 10G RJ4

Miscellaneous

◄ HRW Haivision Kraken Video Transcoder
◄ HRW AC input – (8) 150watt 24VDC output PSU
◄ HRW AC & DC input – 400 watt total @ 24VDC (8) output PSU/UPS
◄ HRW JPS Interoperability RoIP appliance (8 input w/radio control)

Compute Nodes

◄ HRW Xeon D1500 (8c/16t, 12c/24t, and 16core/ 32thread variants)
◄ HRW Xeon D2100IT (8c/16t, 12c/24t, and 16core/ 32thread variants)
◄ HRW Xeon D2100IT TEMPEST Level 1

SUB U SYSTEMS