

Network Security Appliance

# APTNS-13180

1U Network Appliance Based on  
Intel® Xeon® D 1700 Processor  
Series



## Key Features

- Single 3rd Gen Intel® Xeon® D1700 Series SoC with embedded CPU SKUs
- 4x DDR4 2933MHz RDIMMs up to 256GB
- 6x 2.5GbE RJ45 with 2 pairs of LAN Bypass
- 2x 25GbE SFP28 (compatible with 10G SFP+)
- 2x PCIe Gen 4 x8 slots for LAN ports expansion
- 2x M.2 Key B, each with 2 x SIM connectors (both support LTE/5G Verified module: Sierra EM919x, Quectel RM50xQ & Telit FN990Axx)
- Optional TPM 2.0 module for security
- 500W Redundant PSU/ Optional DC PSU

## 1U Rackmount network appliance

Intel  
Xeon

DDR4

Wi-Fi  
ModuleLTE  
Module

Portwell's APTNS-13180 is a 1U Rackmount network appliance powered by the latest Intel® Xeon® D 1700 Series Processor (Codenamed Ice Lake-D LCC), featuring up to 10 cores, PCIe Gen 4 and more high speed I/Os.

The APTNS-13180 supports two channels DDR4 RDIMM/UDIMM (up to 2933MHz) and maximum memory capacity up to 256GB. With 16 PCI Express Gen 4 lanes, the APTNS-13180 can support 2 NIC modules, support multiple Ethernet module bays for flexible port configuration, such as 1/10/25/40 Gigabit fiber, Gigabit copper with BYPASS function or not. The OCP 3.0 and standard PCIe convertible slot design makes expansions more flexible and easier. APTNS-13180 also natively supports two 10/25GbE SFP+/SFP28 with up to 50 Gigabit throughput and six 2.5GbE copper on-board with BYPASS function.



## Hardware Specification

Platform	
Processor	Intel® Xeon® D 1700 Series SoC (Codenamed Ice Lake-D LCC)
BIOS	AMI Aptio® BIOS
System Memory	Total 4 DIMMs (2DPC) -DDR4 2933 RDIMM, up to 64GB/DIMM -DDR4 2666 ECC/Non-ECC UDIMM
Capacity	Up to 256GB
Expansion	-1x PCIe Gen4 x16 slot (2 x8 via riser card) -2x M.2 Key B 3052 sockets with SIM card slots for wireless module
Ethernet Ports	Total 8 Ethernet ports -6x 2.5GbE copper via I225 with 2 pairs bypass -2x 10/25GbE SFP+/SFP28 (Max 50Gbps throughput)
Storage Device	-2x 2.5" SATA 3.0 HDD/SSDs -1x M.2 Key M 2280 socket
Power	500W AT/ATX Power Supply
Dimension	436mm (W) x 328mm (D) x 44.34mm (H)
I/O	
Serial Port	1x RJ-45 Console port
USB	-2x USB 3.2 Gen 1 ports -2x USB 2.0 headers on-board
LCD Panel	128x32/64 graphic, 2x16 characters
Display	1x HDMI connector at rear I/O
LED	-1x Power LED -1x HDD LED -2x Copper bypass LEDs (Normal/ Bypass/ Open mode) -4x SFP28 port LEDs (Link + Speed)
Operation & Certifications	
Operating Environment	0 ~ 40°C ( 32 ~ 104°F )
Storage Environment	-10 ~ 70°C (14 ~ 158°F)
Humidity	5 ~ 95% RH, non-condensing
Certification	CE/FCC