Portwell

Network Security & Management

CAR-6011

Intel Xeon SP Gen.2
1U Appliance with up to 24
Ethernet Ports & PCIe Expansion
Option

Key Features

- Intel Xeon 2nd Gen. Scalable Processor (Cascade Lake) series platform

- 6x DDR4-2400/2933 ECC RDIMMs, up to 1 TB

- 8x RJ45 GbE onboard plus up to 16x RJ45/SFP Ethernet Ports

- 2x 2.5" HDD/SSD bays (SATA or U.2 optional)

- Internal PCIe x8 slot with optional riser card for FHHL PCIe x16 card for FPGA etc.

- Redundant PSU

- System Health Monitoring (IPMI 2.0)

Flexible Network Architecture
for Firewall & UTM Solutions

intel CASCADE LAKE   DDR4 ECC   8 RJ45   IPMI 2.0

The CAR-6011 rackmount appliance is based on the latest second generation Intel Xeon Scalable Processor and provides a flexible network architecture for up to 24 Ethernet ports that can reach up to 100 Gigabit/s depending on configuration. The CAR-6011 is targeted for firewall solutions and unified threat management (UTM) but can also be used by network and service providers for a backup solution. The CAR-6011 by standard, already offers eight Gigabit- Ethernet RJ45 ports but also has two frontloading slots for network adapters using the manufacturer's own designed network configuration. These proprietary (NIP) modules each provide up to eight, extra high-speed Ethernet ports. To add networking flexibility and throughput, the CAR-6011 provides an internal PCI Express x8 slot that enables the configuration with an FPGA card like the Intel FPGA Programmable Acceleration Card N3000, to maximize versatility in communication infrastructures by supporting the main system processor with its customization possibilities and full programmability, for many different and maybe, even yet unknown, network protocols.

Hardware Specification

Platform	
Processor	Intel Xeon 2nd Gen. Scalable Processor (Cascade Lake)
Chipset	Intel C621 PCH
System Memory	6 x DDR4 ECC 2400-2933MHz RDIMMs, up to 1TB
Ethernet Port	8 x RJ45 GbE Ports onboard (Intel i350) Up to 16 x RJ45/SFP Ports with max. 100-GbE
Bypass	Based on CASwell NIC Module or Standard add-on card
Expansion	Up to 1 x PCIe Gen3 x8 for U.2 adapter card or riser card for FHHL PCIe x16 card for FPGA etc.
Storage Device	2 x front 2.5" bays for Hot Swap HDD/SSD (SATA 3.0 or U.2) 1 x M.2 onboard
Power Supply	500W CRPS
Dimension (WxDxH)	System: 438mm x 580mm x 44mm

I/O	
Serial Port	1x NCT6779D 1 x RJ45 System Console Port 2 x RJ45 GbE SYNC & MGMT Ports (Intel i211) 1 x USB Type-C Console Port
USB Port	2 x USB 3.0 Ports
Display Output	Optional from LOM or VGA module
LCD Panel	N/A
LED	System / Power / HDD
LOM	IPMI 2.0 w/ GbE speed

Operation & Certifications	
Operating Environment	Temperature: 0 - 40°C (32 - 104°F) Humidity: 20 - 90% RH
Storage Environment	Temperature: -10 - 70°C (14 - 158°F) Humidity: 5 - 95% RH @ 55°C
Certification	CE/FCC
OS Support	Linux Kernel

Optional CPUs

Optional CPUs				
Models	**Core/Threads**	**Frequency(Max)**	**Cache**	**TDP**
Intel Xeon Gold 6252N	24C/48T	2.3GHz (3.6GHz)	35.75M	150W
Intel Xeon Gold 6230N	20C/40T	2.3GHz (3.5GHz)	27.50M	125W
Intel Xeon Gold 5220T	18C/36T	1.9GHz (3.9GHz)	24.75M	105W
Intel Xeon Gold 5218N	16C/32T	2.3GHz (3.7GHz)	22M	110W
Intel Xeon Silver 4215	8C/16T	2.5GHz (3.5GHz)	11M	85W
Intel Xeon Silver 4210	10C/20T	2.2GHz (3.2GHz)	13.75M	85W