Portwell

Network Security & Management

CAD-0263

Intel® Denverton-NS Platform. SD-WAN and Security Desktop Solution

Key Features

- Intel ATOM C3000 Series (4C to 16C, Denverton-NS)
- Intel QAT Support (Crypto and Compression/Decompression Acceleration)
- Intel AES-NI Support
- 2x DDR4 2400MHz ECC/Non-ECC SO-DIMM Memory
- 2x 10GE SFP+ Ethernet Ports (SR-IOV Support)
- 6x GE RJ45 Ethernet Ports (2 Pairs of Optional Bypass, SR-IOV Support)
- 2x PoE Ports Support (IEEE 802.3at, PoE+)
- LTE Module with SIM Support (1x M.2 Socket)
- Wi-Fi Module Support (1x mPCIe Socket)

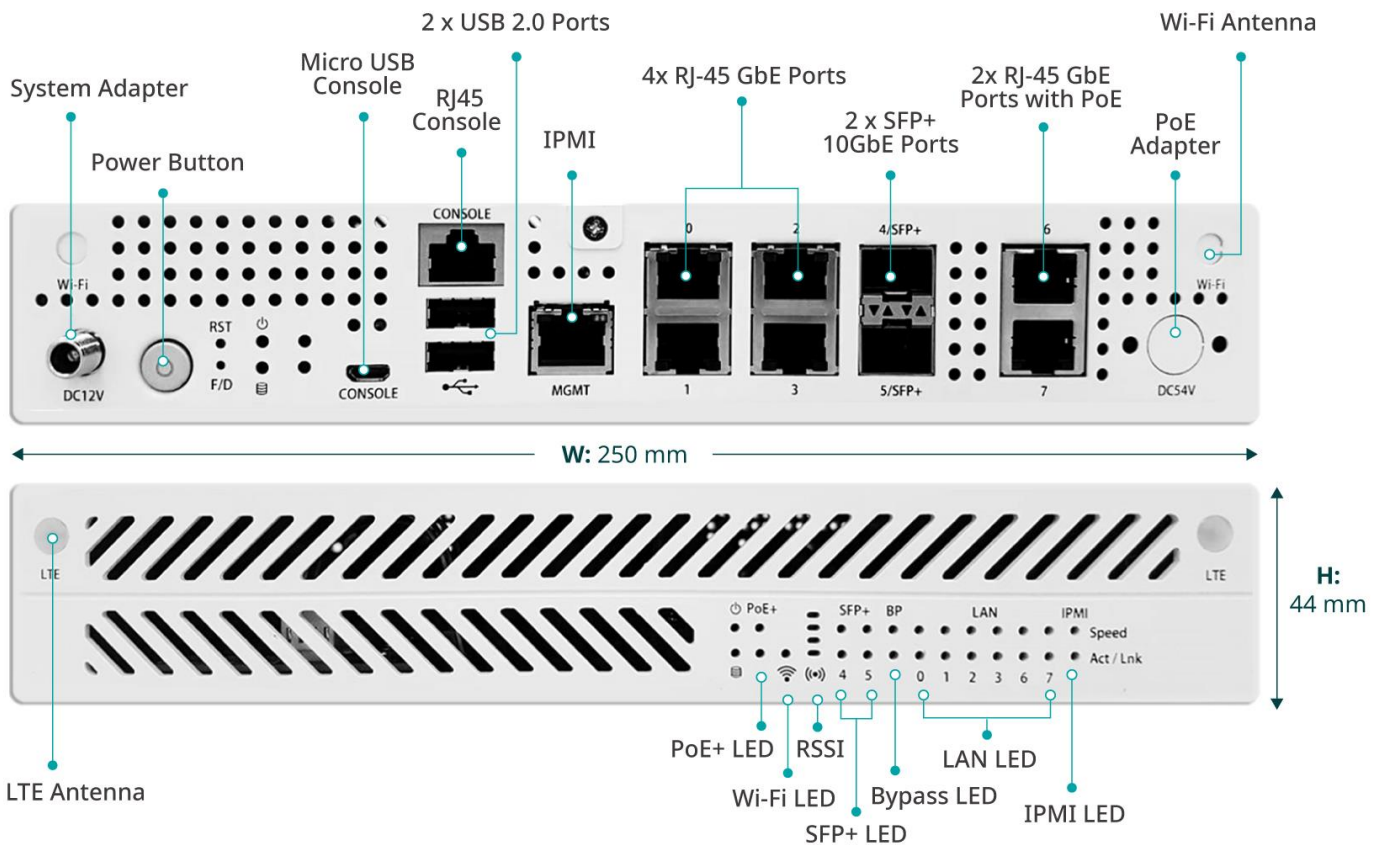**Wireless Communication White Box supporting Intel QAT and WiFi**

(Intel QAT) (10GbE) (Wi-Fi Module) (LTE Module)

CASwell CAD-0263 is based on Intel Atom C3000 processors like the Atom C3758 with eight cores that also supports high-speed DDR4-2400 ECC SO-DIMM main memory. For wired networking the device can be equipped with two SFP+ 10-GbE ports and six RJ-45 GbE ports with optional Bypass functionality in case of network failure. For wireless connections there is one mPCIe port onboard for a WiFi module, one M.2 socket for a LTE module plus SIM card and two anntennas each for both mobile connections. A "Trusted Platform Module" (TPM) for encryption, authentification and digital rights management is also available for the CAD-0263 and the whole system can be monitored by the "Intelligent Platform Management Interface" (IPMI 2.0).

System Adapter

Power Button

Micro USB Console

RJ45 Console

IPMI

2 x USB 2.0 Ports

4x RJ-45 GbE Ports

2 x SFP+ 10GbE Ports

2x RJ-45 GbE Ports with PoE

PoE Adapter

Wi-Fi Antenna

W: 250 mm

H: 44 mm

LTE Antenna

PoE+ LED

RSSI

Wi-Fi LED

SFP+ LED

Bypass LED

LAN LED

IPMI LED

Hardware Specification

Platform	
Processor	Intel® Atom Processor C3758/C3558 SoC (Denverton-NS)
System Memory	2 x DDR4 ECC 2400MHz SO-DIMMs, up to 32GB
Ethernet Port	2 x SFP+ 10GbE Ports ; 6 x RJ45 GbE Ports
Bypass	2 segments on board
Expansion	Up to 1 mPCIe Slot for Wi-Fi Module Up to 1 M.2 Slot for 4G LTE Module
Storage Device	1 x SATADOM (Optional) 1 x mSATA (Optional) 1 x 2.5" SATA HDD/SSD (Optional)
Power Supply	60W Adapter
Dimension (WxDxH)	250mm x 252mm x 44mm
I/O	
Serial Port	1 x RJ-45 GbE Ports (RS232)
USB Port	2 x USB 2.0 Ports
LED	Power / DATA Access / Bypass / RSSI / Wi-Fi / Ethernet / PoE / IPMI
LOM	IPMI 2.0 w/ GbE speed
Operation & Certifications	
Operating Environment	Temperature: 0 - 40°C (32 - 104°F) Humidity: 10 - 90% RH
Storage Environment	Temperature: -10 - 70°C (14 - 158°F) Humidity: 5 - 95% RH @ 55°C
Certification	CE/FCC/UL
OS Support	Linux Kernel