



Ceuta 1U Networking Appliance Series

1U Single Socket Intel® Xeon® Gen5th/4th based Networking Appliance

Product Description

Ceuta is a High-performance 1U rackmount network security appliance, powered by the 5th Gen Intel®



Xeon® Scalable Processors (Emerald Rapids), or by 4th Gen Intel® Xeon® Scalable Processors (Sapphire Rapids). Ceuta delivers optimized network traffic management and enhanced virtualized network security capabilities.

Ceuta provides front connectivity, using 3x PCIe slot, thus providing the largest number of ports/networking standards



(leveraging the wide offering of Silicom's PCIe server adapters, including NICs, and Bypass NICs).

Key Features

- 1S 4th Gen. Intel Xeon Scalable Processors / 5th Gen. Intel Xeon Scalable Processors (LGA4677 socket)
- Intel's C741 chipset
- 1U Rackmount form factor
- 4x DIMM slots with DDR5 4800 memory support + optional 4x DIMM slots with DDR5 4800
- 2 PCIe Gen 5.0 x16 + 1 PCIe Gen 5.0 x8 slots
- 1x SATA-III bays internal (+1 optional)
- 1x NVMe M.2 2280/22110 slot (PCIe 3.0 x4)
- 1x 1000Base-T + 1 dedicate 1000Base-T IPMI ports
- AST2600 BMC with IPMI 2.0 & Redfish support
- Front panel network connectivity (using Silicom's PCIe cards):
 - 8x GbE SFP+
 - 4x 25 GbE SFP28
 - 2x 40 GbE QSFP+
- 1+1 PSU, 800W

Technical Specifications

General Technical Specifications	
Form Factor	1U Rackmount
Dimension (D x W x H)	470 x 439 x 44mm

Ceuta – Front Panel- System

Buttons	1x PWR / 1x Reset (programmable)
LEDs	1x PWR / 1x Reset
I/O Ports	2x USB 3.0 1x COM port (DB-9) 1x VGA (D-Sub 15-pin)
Console	1x RJ54 – Host management 1x RJ45 – BMC management
Networking	8x 10G/SFP+ 4x 25G/SFP28 2x 40G/QSFP+

Ceuta – Drive Bays

Q'ty / Type	1x SATA-III bays internal (+1 optional) 1x NVMe M.2 (x4 PCIe) internal
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Ceuta – System Cooling Configuration

FAN	(2+2+2) fans, hot swap (rear)
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Ceuta – Power Supply

Type	RPSU
Input Range	AC 100~240V/12~6A
Efficiency	80 plus Platinum
Output Watts	800 Watts (rear)
Redundancy	1+1

Ceuta – Processor

Q'ty / Socket Type	1x LGA4677
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Supported CPU Series	4 th / 5 th Gen. Intel Xeon Scalable Processors, Network SKU
Thermal Design Power wattage	250W
Ceuta – Chipset	
PCH	Intel C741
Ceuta – Memory	
Supported DIMM Qty	4x DIMM slots 4x Additional DIMM slots - Optional
DIMM Type / Speed	RDDR5 4800 w/ ECC (1.1V), 1DPC / 3DS RDIMM DDR5 4800 w/ ECC (1.1V), 1DPC
Capacity	Up to 256GB RDIMM / 3DS RDIMM DDR5 4800 (512GB with optional DIMM slots)
Memory Channel	4 Channels (additional 4 DIMM slots – Optional)
Memory Voltage	1.1V
Compatible DIMMs Examples	<p>Samsung:</p> <ul style="list-style-type: none"> • 16GB: M321R2GA3BB0-CQKEG, 1.1V, 1Rx8, RDIMM ECC, RoHS • 32GB: M321R4GA3BB0-CQKVG, 1.1V, RDIMM Reg/ECC, RoHS <p>Micron:</p> <ul style="list-style-type: none"> • 16GB: MTC10F1084S1RC48BA1NGCC, 1.1V, 1R, Reg/ECC, RoHS • 32GB: MTC20F1045S1RC48BA2NHCC, 1.1V, 1R, Reg/ECC, RoHS
Ceuta – Networking	
1 GbE	1x GbE dedicated for IPMI, Intel i210-AT (front) 1x GbE dedicated for IPMI, Realtek RTL8211F (front)
10 GbE	8x GbE SFP+, Intel E810-CAM2 (front), by Silicom standard PCIe cards
25 GbE	4x 25 GbE SFP28, Intel E810-CAM1 (front), by Silicom standard PCIe cards
40 GbE	2x 40 GbE QSFP+, Intel XL710-BM2 (front), by Silicom standard PCIe cards
Ceuta – Storage	
NVMe Connector (M.2)	1x 2280/22110 (internal)

SATA-III	1x Internal 1x Internal - Optional
Ceuta – Graphic	
Connector type	D-Sub 15-pin
Resolution	Up to 1920x1200
Chipset	Aspeed AST2600
Input / Output	
USB	1x USB3.0 ports (front)
COM	1x DB-9 COM port (front) 1x COM port (internal)
VGA	1x D-Sub 15-pin port (front)
RJ-45	2x GbE ports, host and BMC management (front)
SFP+	8x 10 GbE (front), by Silicom standard PCIe cards
FFP28	4x 25 GbE (front), by Silicom standard PCIe cards
QSFP+	2x 40 GbE (front), by Silicom standard PCIe cards
Ceuta – Security	
Security Features	TPM 2.0 Hardware Root of Trust Intrusion Switch
Ceuta – System Monitoring	
Chipset	Aspeed AST2600
Voltage	Monitors voltage for CPU, memory, chipset & power supply
Temperature	Monitors temperature for CPU & memory & system environment

LED (On system front panel)	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator
Other	Watchdog timer support
Ceuta – Server Management	
Onboard Chipset	Onboard Aspeed AST2600, w/VGA
AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
Ceuta – BIOS	
Brand / ROM size	AMI / 64MB
Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PhP/Wake on LAN / ACPI 6.0 / ACPI sleeping states S0, S5
Ceuta – Operating System	
Supported OS	Linux
Ceuta – Regulations	
FCC (SDoC)	Class A
CE (DoC)	Class A
VCCI	Class A
RCM	Class A
CB/LVD	Yes
Ceuta – Operating Environment	

Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
In/Non-operating Humidity	90%, non-condensing at 35° C
Ceuta – RoHS	
RoHS 6/6 Complaint	Yes

Order Information

P/N	Description	Notes
Ceuta 1U Networking Appliance Series	Universal CPE 1U Single Socket Intel® Emerald Rapids based	