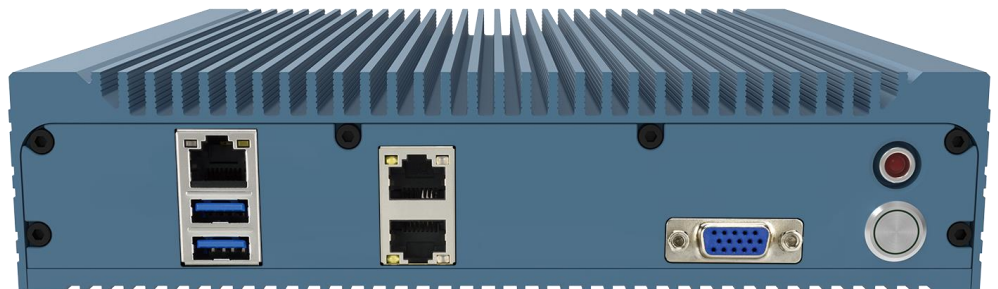




# ROC100-KD2

1.5U<sub>2</sub> Half Rack Military Server with

Xeon D-2100 processor



- MIL-STD 810 Thermal, shock, vibration, Humidity
- Intel® Xeon D-2100 Processors (up to 16 cores)
- Dual 10G RJ45 T-base (Intel® X722)
- SoC controller for 8 SATAIII ports support RAID 0,1,5,10
- Support IPMI
- Support VM ware ESXi 7.0
- Up to 256GB/512GB DDR4 RDIMM/LRDIMM
- Extended operating temperature. -20°C to 70°C
- 12V DC-IN or 9V~36V DC-IN (option)

# Specifications

## System

Processor	Intel® Xeon® Processor D-2123IT, 4-Core, 8 Threads, 8MB cache, 60W Intel® Xeon® Processor D-2141I, 8-Core, 16 Threads, 11MB cache, 65W Intel® Xeon® Processor D-2166NT, 12-Core, 24 Threads, 17MB cache, 85W Intel® Xeon® Processor D-2183IT, 16-Core, 32 Threads, 22MB Cache, 100W
Memory type	DDR4, Up to 256GB/512GB RDIMM/LRDIMM
Graphic	ASPEED AST2500
TPM	Support TPM 2.0 header
BIOS	AMI UEFI BIOS
USB	2x USB 3.0 + 2x USB2.0(header)
Ethernet	2x 10GbE Base-T ports
Storage	SoC controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10 4 SATA ports via OCuLink (or PCIE3.0 x4 for NVMe)
Expansion	1 PCIe 3.0 x8 slot
SGPIO	1x S-SGPIO(2x 4pin header)
Power Type	12V DC-IN
Operating Temperature	-20°C to +70°C
Dimension	220mm(W) x 300mm(L) x 66mm(H)

## Front I/O

LAN	2x 10GbE LAN T-Base
USB	2x USB 3.0
Display	1x VGA
IPMI	1x RJ45 IPMI port
Switch	Power Switch with Backlight
LED	HDD/SSD indicator LED

## Rear I/O

Power	4P terminal Block
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## Power Supply

PSU	9V~36V DC-IN (option)
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## Environmental

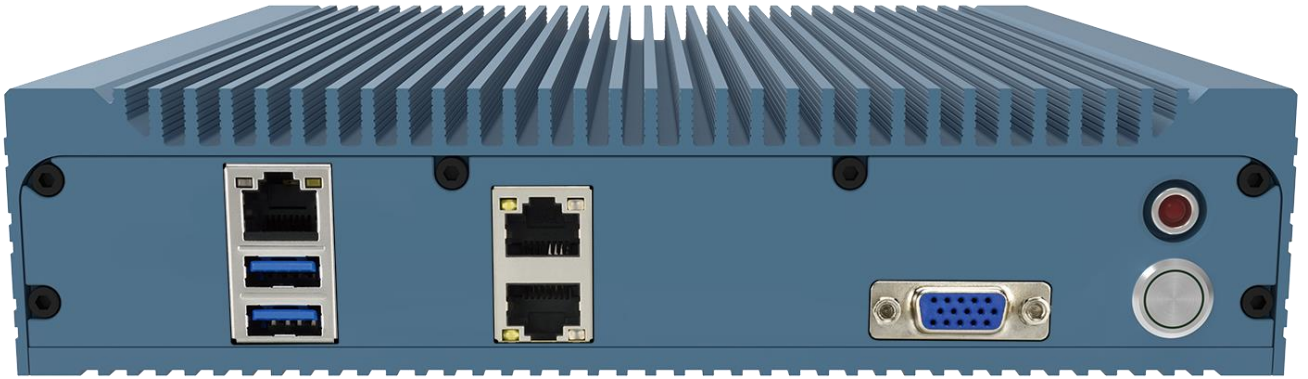
MIL-STD-810 Test	<p>Method 500.5, Procedures I and II (Altitude, Operation): 12,192M, (40,000 ft) for the initial cabin altitude (18.8Kpa or 2.73 Psia)</p> <p>Method 500.5, Procedures III and IV (Altitude, Non-Operation): 15,240, (50,000 ft) for the initial cabin altitude (14.9Kpa or 2.16 Psia)</p> <p>Method 501.5, Procedure I (Storage/High Temperature)</p> <p>Method 501.5, Procedure II (Operation/High Temperature)</p> <p>Method 502.5, Procedure I (Storage/Low Temperature)</p> <p>Method 502.5, Procedure II (Operation/Low Temperature)</p> <p>Method 503.5, Procedure I (Temperature shock)</p> <p>Method 507.5, Procedure II (Temperature &amp; Humidity)</p> <p>Method 514.6, Vibration Category 24/Non-Operating (Category 20 &amp; 24, Vibration)</p> <p>Method 514.6, Vibration Category 20/Operating (Category 20 &amp; 24, Vibration)</p> <p>Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock)</p> <p>Method 516.6, Shock-Procedure I Operating (Mechanical Shock)</p>
Reliability	Designed & Manufactured using ISO 9001 Certified Quality Program.
Operating Temp	-20°C to +70°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing.

## Ordering Information

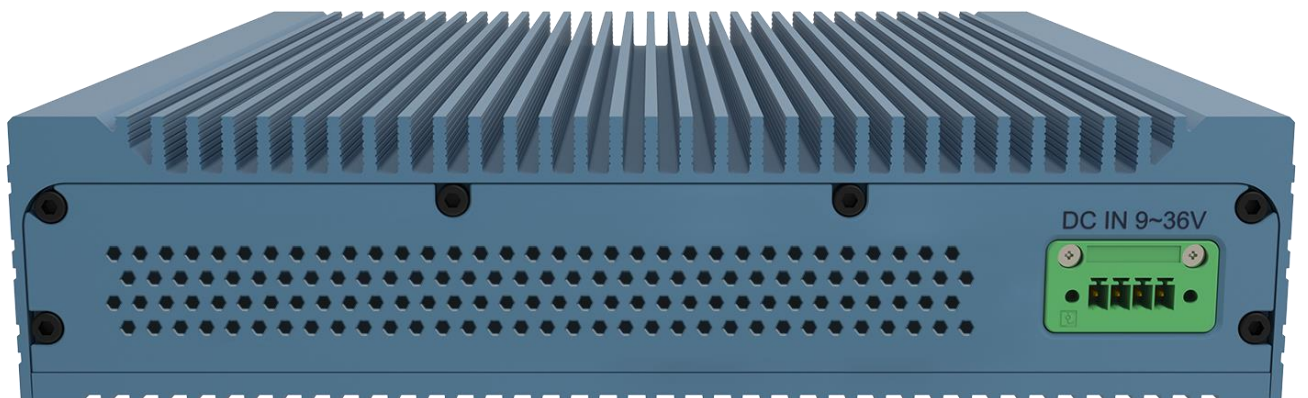
	ROC100-XD22	ROC100-XD24	ROC100-XD26	ROC100-XD28
<b>CPU</b>	D-2123IT	D-2141I	D-2166NT	D-2183IT
	4C/8T, 8MB cache, 60W	8C/16T, 11MB cache, 65W	12C/24T, 17MB cache, 85W	16C/32T, 22MB cache, 100W
<b>Chipset</b>	Soc	Soc	Soc	Soc
<b>GPU</b>	AST2500	AST2500	AST2500	AST2500
<b>RAM</b>	DDR4 256/512GB RDIMM/LRDIMM	DDR4 256/512GB RDIMM/LRDIMM	DDR4 256/512GB RDIMM/LRDIMM	DDR4 256/512GB RDIMM/LRDIMM
<b>Storage</b>	4x SATA III 1x OcuLink (4x SATA) support RAID0.1.5.10	4x SATA III 1x OcuLink (4x SATA) support RAID0.1.5.10	4x SATA III 1x OcuLink (4x SATA) support RAID0.1.5.10	4x SATA III 1x OcuLink (4x SATA) support RAID0.1.5.10
<b>PSU</b>	9V~36V DC-IN	9V~36V DC-IN	9V~36V DC-IN	9V~36V DC-IN
<b>I/O</b>	2 x RJ45 10GLAN	2 x RJ45 10GLAN	2 x RJ45 10GLAN	2 x RJ45 10GLAN
	2x USB3.0	2x USB3.0	2x USB3.0	2x USB3.0
	1x IPMI	1x IPMI	1x IPMI	1x IPMI
	1x VGA	1x VGA	1x VGA	1x VGA
<b>OS</b>	windows Server 2016 Ubuntu 18.04.1LTS VMWare® ESXi 7.0	windows Server 2016 Ubuntu 18.04.1LTS VMWare® ESXi 7.0	windows Server 2016 Ubuntu 18.04.1LTS VMWare® ESXi 7.0	windows Server 2016 Ubuntu 18.04.1LTS VMWare® ESXi 7.0

## Appearance

### Front I/O



### Rear I/O



# Dimension

