



LAND



SEA



AIR

# ROC280A

19" 1U SHORT DEPTH FANLESS SERVER



- Intel® 12<sup>th</sup> Core-i® i7-12700TE Processor
- Up to 64GB SO-DIMM DDR4
- 1 x 2.5GbE ; 1 x GbE
- 2 x DP , 8 x USB Ports
- 1 x PCIe 4.0 x 16 Expansion Slot
- 100~240V AC-IN  
Option : 9~36V DC-IN or Redundant
- Extended Temperature -20 to +60°C (W/O Fan)
- MIL-STD-810 / MIL-STD-461 Compliance



## Specifications

<b>SYSTEM</b>	
High Performance Processor	Intel® 12 <sup>th</sup> Core-i® Processor i7-12700TE (Frequency 3.4GHz, Turbo Boost Frequency up to 4.6GHz), 12-Core,20 Thread Support, 25MB Smart Cache
Chipset	H610
Memory type	DDR4 3200 MHz / 2 x 260-pin SO-DIMM / Max. 64 GB (Non-ECC)
Expansion Slot	1 x PCI-E 4.0 x 16 1 x M.2 M-Key 2280(PCI-E 3.0 x 4/SATAIII)
<b>DISPLAY</b>	
DP	Resolution up to 4096 x 2304 @60Hz
2 <sup>nd</sup> DP	Resolution up to 4096 x 2304 @30Hz
<b>STORAGE</b>	
Storage Device	2 x 2.5" Solid State Disk (SSD) 2 x SATAIII
<b>ETHERNET</b>	
Ethernet	1 x Intel® I219-LM Giga LAN 1 x Intel® I225-V Giga LAN
<b>FRONT I/O</b>	
Button	1 x Power Button
Indicator LED	1 x HDD LED ; 1 x Power LED
USB Port	2 x USB2.0 standard-A connectors
SSD Tray	2 x 2.5 SSD Easy Swap Tray
<b>REAR I/O</b>	
Ethernet	1 x 2.5GbE ; 1 x GbE
DP	2 x DP
COM	2 x RS232
USB	4 x USB3.2 Gen2 / 2 x USB2.0
AUDIO	1 x Mic-in ; 1 x Line-out
Power	AC-IN Plug or DC-IN Plug by option
<b>POWER REQUIREMENT</b>	
Power Input	100~240V AC-IN

	Option : DC-IN 9~36V or Redundant
<b>OPERATING SYSTEM</b>	
Operating System	Windows 10 64Bit, Linux by option
<b>PHYSICAL</b>	
Dimension (W x D x H)	440 x 440 x 44mm
Chassis	SECC
<b>ENVIRONMENTAL</b>	
MIL-STD-810	Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock) Method 507.5, Procedure II (Temperature & Humidity) Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24,Vibration) Method 514.6, Vibration Category 20/Operating (Category 20 & 24,Vibration) Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6, Shock-Procedure I Operating (Mechanical Shock) Option : MIL-STD-167-1 / MIL-STD-901
EMC	EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-3: 10V/m EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV CE and FCC MIL-STD-461 (Options): CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies
Operating Temperature	-20 to 60°C (W/O Fan)
Storage Temperature	-40 to 85°C
Relative Humidity	10% to 95%, non-condensing

## Ordering Information

### Fanless SKU :

Model Spec	ROC280A-AFL	ROC280A-AAFL	ROC280A-DFL	ROC270A-DDFL
<b>CPU</b>	I7-12700TE			
<b>PCH</b>	H610			
<b>RAM</b>	Up to 64GB SO-DIMM DDR4			
<b>LAN</b>	1 x 2.5GbE ; 1 x GbE			
<b>USB 3.1</b>	4			
<b>USB 2.0</b>	4			
<b>DP</b>	2			
<b>Power</b>	AC-DC 100~240V	AC-DC 100~240V Redundant	DC-DC 9~36V	DC-DC 9~36V Redundant
<b>Dimension (W x D x H)</b>	440 x 440 x 44mm	440 x 440 x 44mm	440 x 440 x 44mm	440 x 440 x 44mm
<b>Operation Temp</b>	-20 to +60°C			