



LAND



SEA



AIR

# ROC280-MA

1U 15" ULTRA SHORT DEPTH MILITARY  
RUGGED AIR COOLED SERVER



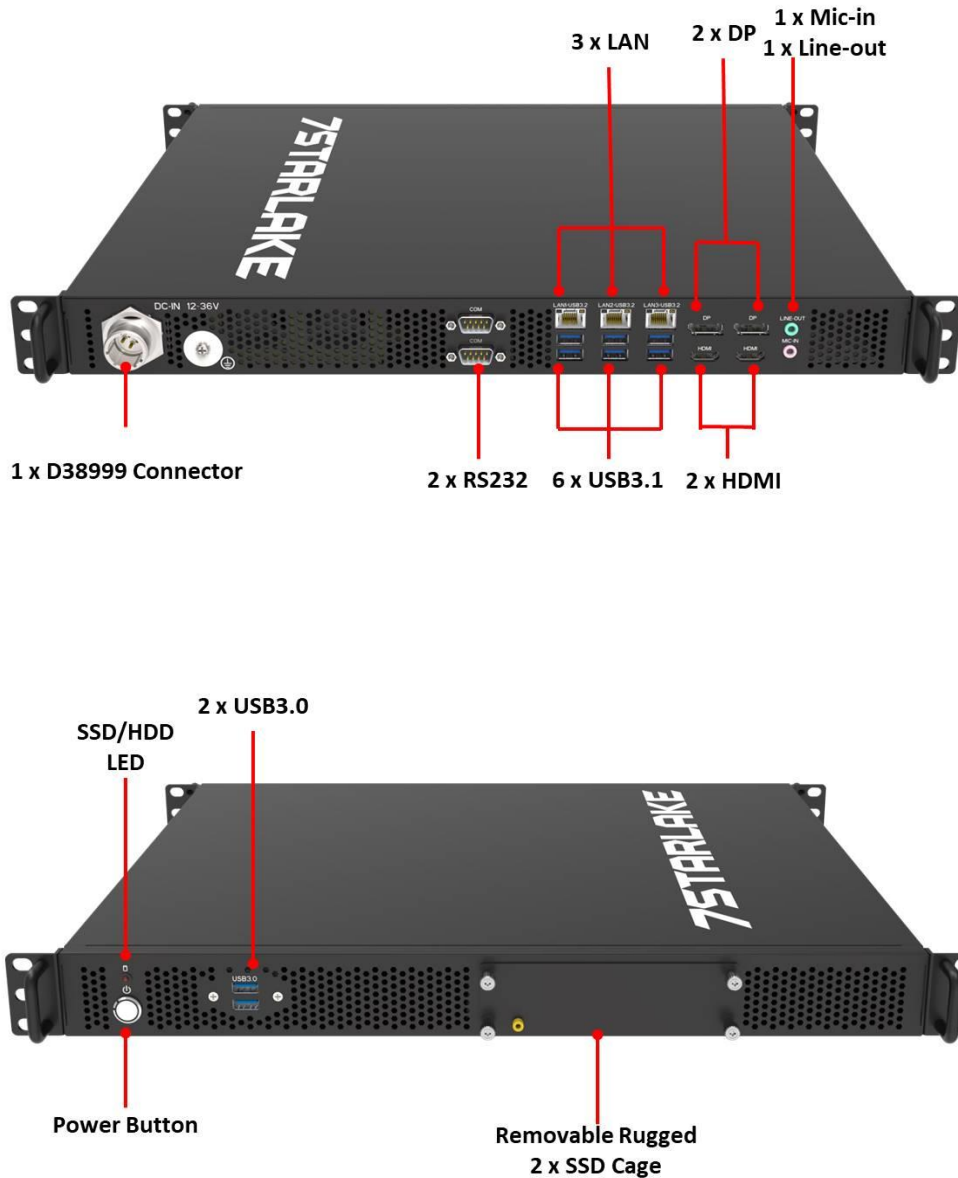
- 1U Ultra Short Depth Rugged Air Cooled Server
- MIL-STD-810 Thermal, Shock, Vibration, Humidity
- Intel® 13<sup>th</sup>/14<sup>th</sup> Core-i® i7-13700TE Processor
- DDR5 64GB, 2x LAN ,2 x DP, 2 x HDMI, 4 x USB Ports
- DC-IN 12V~36V MIL-461 EMI Filter
- Removable Rugged 2 x SSD Cage
- Extended Temperature -20 to +60°C
- MIL-STD-461/1275 Compliance

## Specifications

<b>SYSTEM</b>	
High Performance Processor	Intel® 13 <sup>th</sup> /14 <sup>th</sup> Core-i® Processor i7-13700TE (Frequency 3.6GHz, Turbo Boost Frequency up to 4.8GHz), 16-Core,24 Thread Support, 30MB Smart Cache
Chipset	Q670
Memory type	DDR5 5200 MHz / 2 x 260-pin SO-DIMM / Max. 64 GB (Non-ECC)
<b>DISPLAY</b>	
DP	Resolution up to 4096 x 2304 @60Hz
HDMI	Resolution up to 4096 x 2304 @60Hz
<b>STORAGE</b>	
Storage Device	2 x 2.5" Solid State Disk (SSD) 2 x SATAIII up to 4TB
<b>ETHERNET</b>	
Ethernet	1 x Intel® I226-LM 2.5Giga LAN 2 x Intel® I226-V 2.5Giga LAN
<b>FRONT I/O</b>	
COM	2 x USB3.0
Indicator LED	1 x HDD/SSD LED
SSD Cage	Removable Rugged 2 x SSD Cage
Button	1 x Power Switch with Dedicated LED
<b>REAR I/O</b>	
Ethernet	3 x 2.5GbE
DP	2 x DP
HDMI	2 x HDMI
USB	6 x USB3.1
COM	2 x RS232
AUDIO	1x Mic-in ; 1x Line-out
Power	1 x D38999 Connector
<b>POWER REQUIREMENT</b>	
Power Input	12~36V

<b>OPERATING SYSTEM</b>	
Operating System	Windows 10/11 64Bit, Linux by option
<b>PHYSICAL</b>	
Dimension (W x D x H)	430 x 380 x 44mm
Chassis	SECC
<b>ENVIRONMENTAL</b>	
MIL-STD-810 Compliance	Method 507.5, Procedure II (Temperature & Humidity) Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6 Shock-Procedure I Operating (Mechanical Shock) Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) 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)
EMC Compliance	MIL-STD-461E : 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 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
Thermal	Air Cooled
Operating Temperature	-20 to 60°C
Storage Temperature	-40 to 85°C
Relative Humidity	10% to 95%, non-condensing

## Appearance



## Ordering Information

### ROC280-MA

1U Ultra Short Depth Military Rugged Air Cooled Server with Intel® Raptor Lake-R/S 14<sup>th</sup> i7-13700TE Processor, Q670, 2 x DDR5 SO-DIMM up to 64GB, 2 x DisplayPort, 2 x HDMI, 6 x USB3.1, 2 x RS232, 2 x USB3.0, removable rugged 2 x SSD Cage, 12~36V DC-IN D38999 connector with MIL-STD-461/1275 compliance, Operating Temp. -20~+60°C