



LAND



SEA



AIR

# ROC280-MA

19"1U Short Depth Military Server



**13<sup>th</sup>**  
Raptor lake

**14<sup>th</sup>**  
Raptor Lake Refresh

**MIL-STD**  
**461**

**MIL-STD**  
**810**

- 1U Short Depth (400mm) Rugged Workstation
- 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
- 12V~40V DC-IN
- Removable Rugged 2 x SSD Cage
- Hardware Secure Erase (AES Key by Options)
- Extended Temperature -20 to +60°C
- MIL-STD-461/1275 Compliance

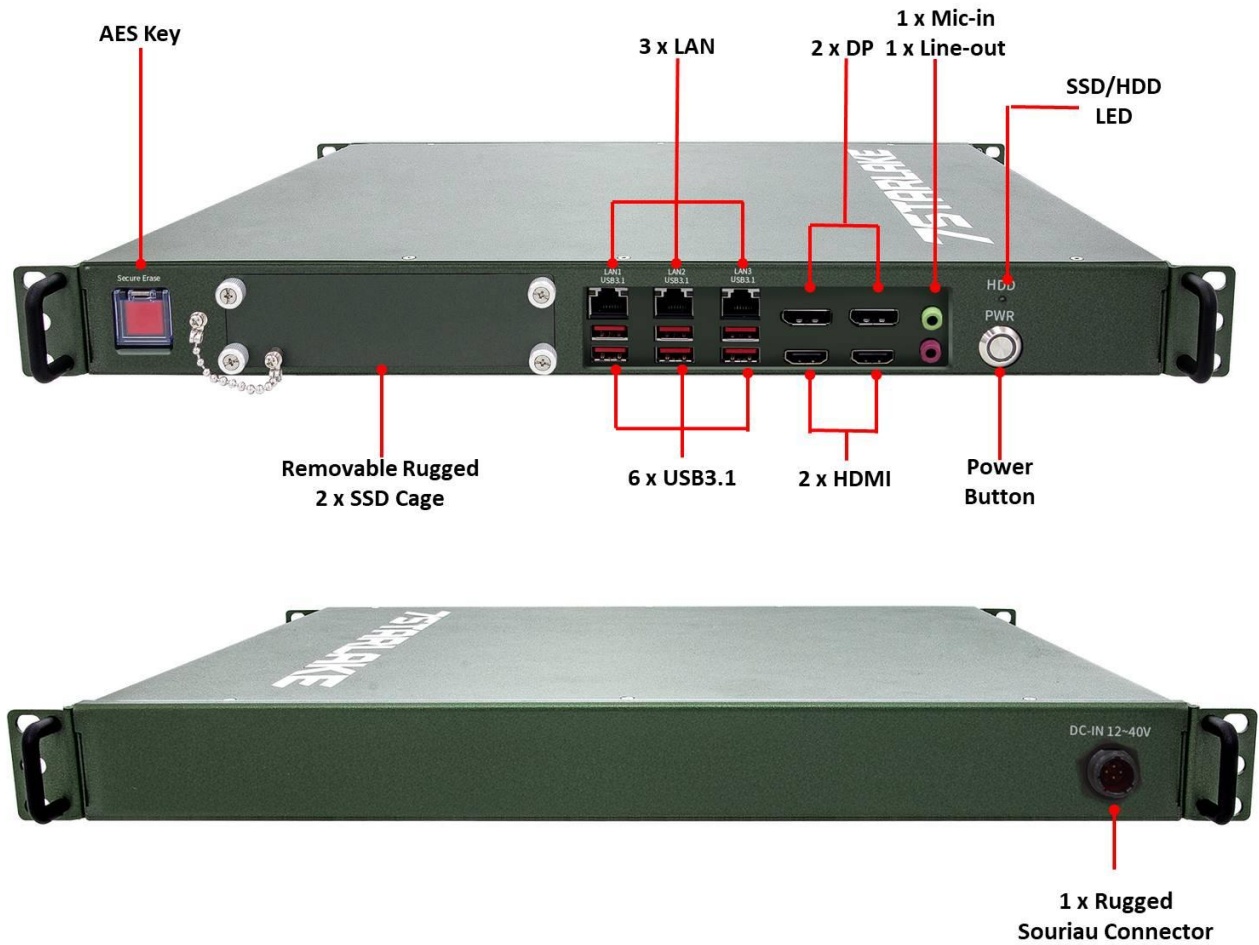


## Specifications

<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>	
Power	1 x Rugged Souriau Connector
<b>Rear I/O</b>	
Ethernet	3 x 2.5GbE
DP	2 x DP
HDMI	2 x HDMI
USB	6 x USB3.1
AUDIO	1 x Mic-in ; 1 x Line-out
Button	1 x Power Switch with Dedicated LED 1 x Secure Erase Button
Indicator LED	1 x HDD/SSD LED
SSD Cage	Removable Rugged 2 x SSD Cage
<b>Power Requirement</b>	
Power Input	DC-IN 12~40V(150W max) Option : 12~36V

<b>Operating System</b>	
Operating System	Windows 10/11 64Bit, Linux by option
<b>Physical</b>	
Dimension (W x D x H)	440 x 400 x 44mm
Chassis	SECC
<b>Environmental</b>	
MIL-STD-810 Compliance	<p>Method 507.5, Procedure II (Temperature &amp; Humidity)</p> <p>Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock)</p> <p>Method 516.6 Shock-Procedure I Operating (Mechanical Shock)</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 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>
EMC Compliance	<p>MIL-STD-461E :</p> <p>CE102 basic curve, 10kHz - 30 MHz</p> <p>RE102-4, (1.5 MHz) -30 MHz - 5 GHz</p> <p>RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies</p> <p>EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV</p> <p>EN 61000-4-3: 10V/m</p> <p>EN 61000-4-4: Signal and DC-Net: 1 kV</p> <p>EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV</p> <p>CE and FCC</p>
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 19" Short Depth Military 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 USB, 2 x USB2.0, 1 x AES secure erase button, removable rugged 2 x SSD Cage, 12~40V DC-IN rugged souriau connector with MIL-STD-461/1275 compliance, Operating Temp. -20~+60°C