



AVBOOTH-ABO-PAI

Military IP66 Mission GPU Computer







- MIL-STD 810 Thermal, shock, vibration, **Humidity / EMI / EMC conditions**
- IP65 Chassis with D38999 connectors
- 64GB DDR4 SO-DIMM ECC or non ECC support
- NVIDIA RTX™ A2000 MXM 8GB GDDR6

- Extreme Temperature: -20 to 55°C degree

## **Specifications**

СРИ	Intel® 11 gen. Tiger Lake W-11865MRE Processors, 2.60GHz Max 4.70GHzup to 8	
	cores, integrated Intel® UHD Graphics	
Memory type	64GB DDR4 SO-DIMM ECC or non ECC support	
CHIPSET	Intel® RM590E (support ECC, with Xeon CPU) /QM580E	
GPGPU	NVIDIA RTX™ A2000 GA104-955 GPU	
	8GB GDDR6 memory, 2560 CUDA cores	
VIDEO CAPTI	URE	
SDI	1 x 3D-SDI Capture Card	
UART		
СОМ	1 x RS232, 2 x RS422/485	
STORAGE		
SATA	2.5" SSD, Hot Swappable SSD/HDD slot	
ETHERNET		
Ethernet	2 x 10/100/1000 Ethernet Ports	
DISPLAY		
DVI	1 support NTSC/PAL	
FRONT I/O		
X1	1 x DVI (NTSC/PAL) +1x RS232, 2 x RS422/485 +USB2.0, with D38999 Nickel plating connector	
X2	2 x Giga LAN, with D38999 Nickel plating connector	
Х3	1 x USB3.0 , with D38999 Nickel plating connector	
X4	1 x USB3.0 , with D38999 Nickel plating connector	
X5	1 x DC-in , with D38999 Nickel plating connector	
LED	1 x SSD/HDD LED indicator	
switch	1 x IP66 power button , with LED indicator	
SSD	2.5" Easy swap SSD Tray	
Power		
Power input	MIL-STD-461 18V~36V DC-Input	

## **OPERATING SYSTEM**

OS	Windows® 10 or <b>11(TPM 2.0 By Request)</b> 64-bit			
	Linux (support by request)			
PHYSICAL				
Dimension	250(L) x 313.5 (W) x 100 (H)mm			
Weight	10Kg (22 lbs.)			
Chassis	SECC			
Heatsink	Heatsink Aluminum Alloy, Corrosion Resistant			
ENVIRONMEN	TAL			
Green Product	RoHS, WEEE compliance			
Operating Temp.	-20 to 55°C			
Storage Temp.	-40 to 85°C			
Relative Humidity	5% to 95%, non-condensing			
MIL-STD-81	O SPECIFICATIONS (C	PERATING)		
Method 502.5	Low Tomporaturo	-20°C, 4 hours, ±3°C		
Procedure 2	<ul> <li>Low Temperature</li> </ul>			
Method 501.5	IP-li T	.55% 41 .2%		
Procedure 2	<ul> <li>High Temperature</li> </ul>	+55°C, 4 hours, ±3°C		
Method 507.5	Humidity	85%-95% RH without condensation, 24 hours/ cycle, conduct 10 cycles.		
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.		
Method 516.6	Shock	20 Grms, 11ms, 3 axes.		
MIL-STD-81	O SPECIFICATIONS (N	NONE-OPERATING)		
Method 502.5	<ul> <li>Low Temperature Storage</li> </ul>	-40°C, 4 hours, change rate:≦20°C/ Hour		
Procedure 1	Low Temperature Storage	-15°C, 72hours (By request)		
Method 501.5		+71°C, 4 hours, change rate: ≤ 20°C/ Hour		
Procedure 1	<ul> <li>High Temperature Storage</li> </ul>	+63°C, 240 hours (By request)		
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.		
Method 516.6	Shock	20 Grms, 11ms, 3 axes.		

MIL-STD-46	51		
Conducted Emission Power Leads	ons CE102	10kHz – 10MHz	
Radiated Emission Electric Filed	rs, RE102	1.5MHz -30MHz - 5.0 GHz	
		2MHz – 80MHz, 50 V/m	
Radiated Susceptil	bility RS103	80MHz – 3GHz, 50 V/m	
Licetific Ficia		3GHz – 5GHz, 50 V/m	
MIL-STD-704 (BY REQUEST)			
LDC101	Load Measurements		
LDC102	Steady State Limits for Voltage		
LDC103	Voltage Distortion Spectrum		
LDC104	Total Ripple		
LDC105	Normal Voltage Transients		
LDC201	Power Interrupt		
LDC301	Steady State Limits for Voltage		
LDC401	Steady State Limits for Voltage		
LDC501	Starting Voltage Transients		
LDC601	Power Failure		
LDC602	Phase Reversal		
MIL-STD-1275 (BY REQUEST)			
Steady State	20V-33V		
Surge Low	18V/500ms		
Surge High	100V/500ms		