



LAND



SEA



AIR

THOR200-X11-12

2U Half Military High Performance Computer



FEATURES

- Intel® Tiger Lake-H i7-11850HE Processors (up to 8 cores)
- NVidia RTX A2000 (3328 CUDA)
- Up to 64GB DDR4 SO-DIMM
- Dual CH 3G-SDI support 1080p60 H.264 H/W Encode
- 1 x Swappable SSD Tray
- Compliant with MIL-STD-810
- 18V~36V MIL-STD-461/MIL-STD-1275
- Extreme Temperature : -40 ~+60 degree



Specifications

SYSTEM

Processor	Intel® Core™ i7-11850HE, 2.6(4.7) GHz, 24MB, 45W, 8C/16T
Memory type	Up to 64GB DDR4 SO-DIMM
Chipset	Intel® QM580E
Graphic	Embedded NVIDIA® RTX™ A2000 - Ampere Architecture - 2560 CUDA® cores, 20 RT Cores, and 80 Tensor Cores - 4GB GDDR6 memory, 128-bit
TPM	Chipset: Infineon, Type: TPM 2.0
BIOS	AMI UEFI BIOS
USB	4 x USB 3.0
Ethernet	2 x 10/100/1000 Ethernet Ports (1 X LAN form mini-PCIE LAN module card)
3G-SDI	Dual CH 3G-SDI support 1080p60 H.264 H/W Encode
Power Type	18V ~ 36V DC IN MIL-STD 461 EMI DC Module
Storage	1 x2.5" SATA SSD (1x Swappable SSD Tray)
COM Port	1 x RS232/422/485 (function select by jumper)
Operating Temperature	-40°C to +60°C
Dimension	220mm(W) x 350mm(L)x88mm(H)

FRONT I/O

LAN(GbE)	2
USB3.0	4
DP	2
AUDIO	1 x Line-in/1 x Mic-out
COM	1 x RS232/422/485
Power Button	1 x W/LED
SSD LED	1
DC-IN	1 x D38999 Connector
3G-SDI	Dual CH BNC Connector
SSD Tray	1 x Swappable SSD

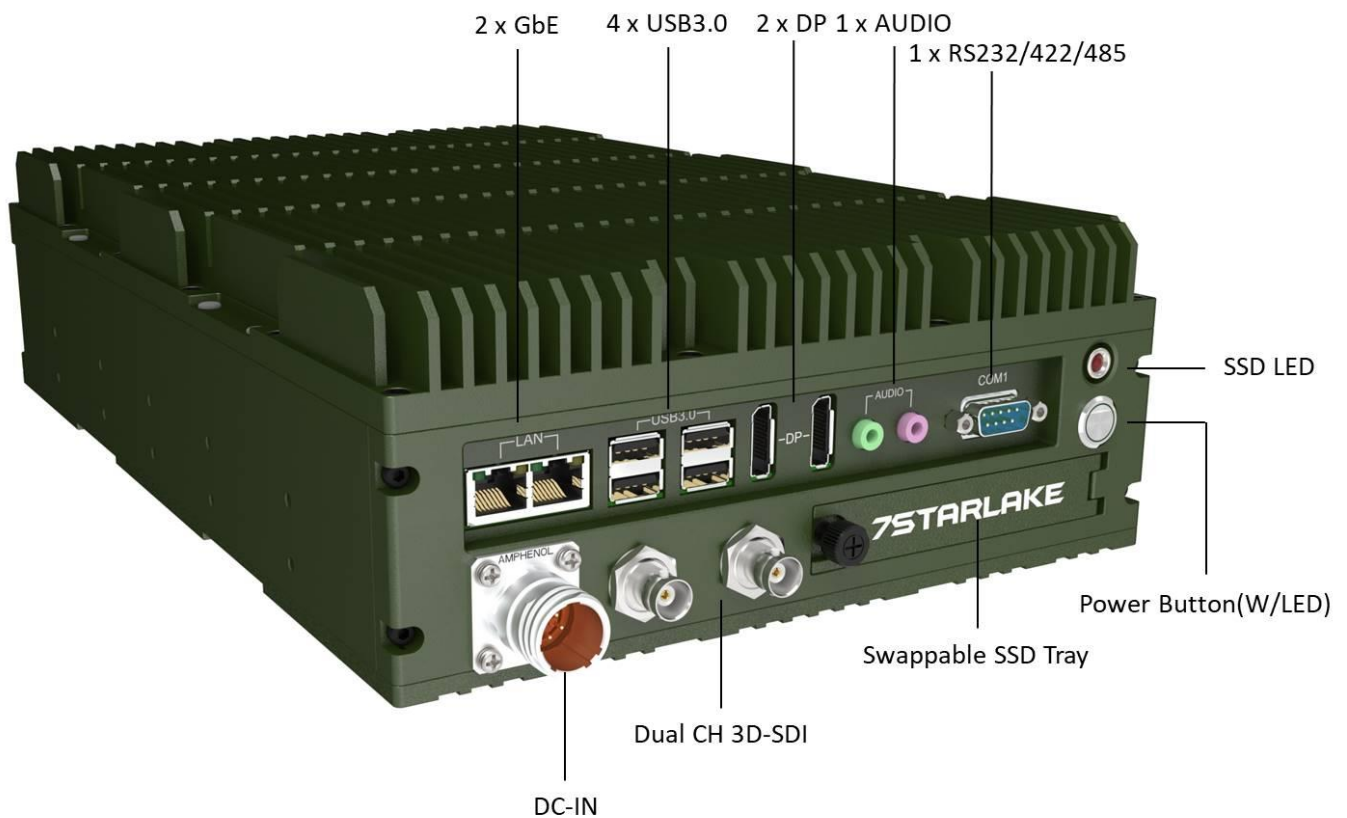
ENVIRONMENTAL

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 & Humidity)</p> <p>Method 509.7 Salt Spray (50±5)g/L</p> <p>Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24,Vibration)</p> <p>Method 514.6, Vibration Category 20/Operating (Category 20 & 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	<p>No Moving Parts; Passive Cooling.</p> <p>Designed & Manufactured using ISO 9001 Certified Quality Program.</p>
MIL-STD-461	<p>CE102 basic curve, 10kHz - 30 MHz</p> <p>CS101, 30 Hz~150 kHz</p> <p>CS114, 10 kHz~200 MHz</p> <p>CS115,50v/m</p> <p>CS116,50v/m</p> <p>RE102 2 MHz -2MHz to 18GHz</p> <p>RS103 2Mhz to 18GHz</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>
MIL-STD-1275	<p>Steady State –25V~30V,</p> <p>Surge Low – 15V/500ms,</p> <p>Surge High – 100V/500ms</p> <p>Spikes Low –250/70uS</p> <p>Spikes High +250/70uS</p>
Operating Temp	-40°C to +60°C (ambient with air flow)
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95%, non-condensing.

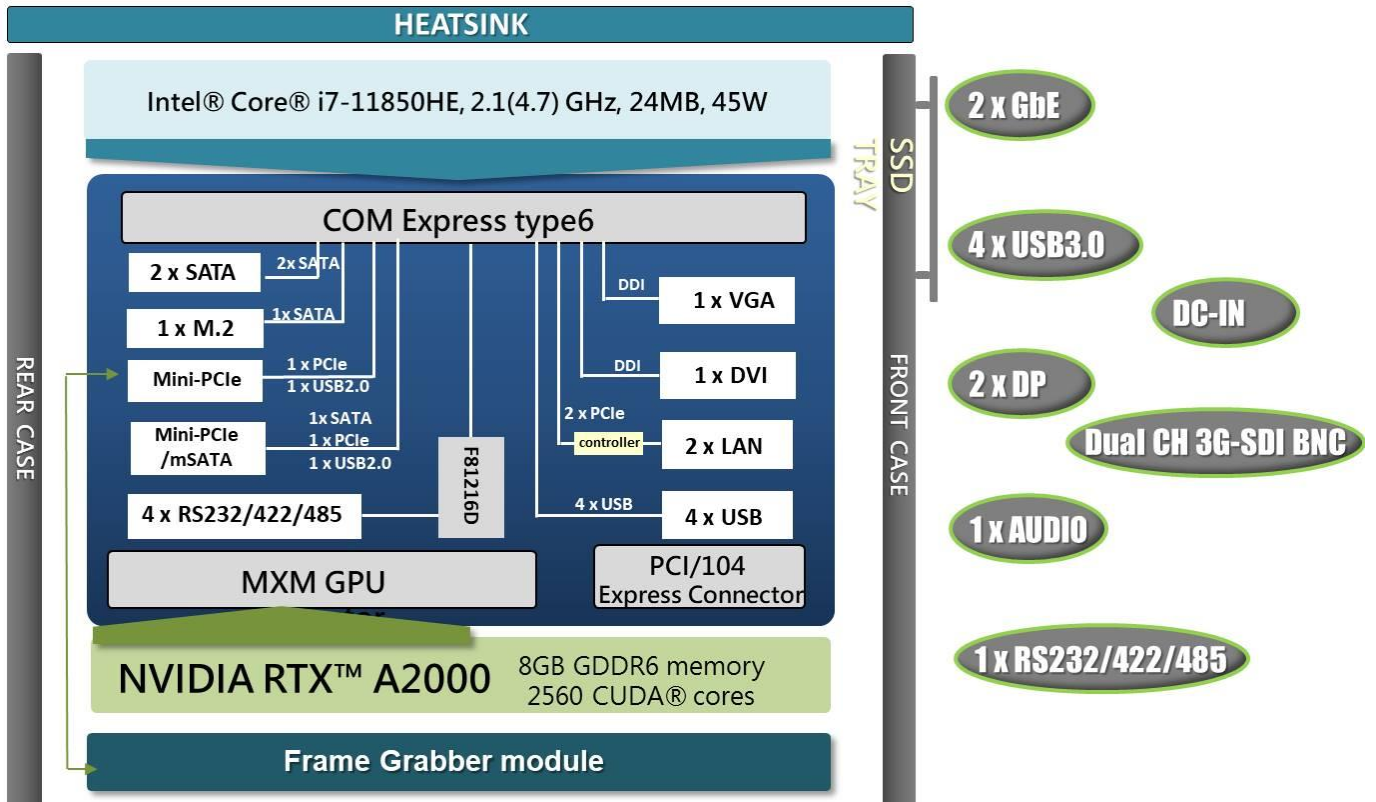
Ordering Information

	THOR200-X11-I2
CPU	I7-11850HE(8C)
GPU	NVIDIA RTX A2000
RAM	DDR4 64GB
RAID	RAID 0/1
Storage	1x2.5" SATA Drive
PSU	18V~36V MIL-STD-461
I/O	4 x USB3.0
	1 x RS232/422/485
	2 x LAN
	2 x DP
	1 x DC

Appearance



Block Diagram



Dimension

