

THOR-11 TV

2U HALF MILITARY HIGH PERFORMANCE COMPUTER



- MIL-STD810 Thermal, shock, vibration, Humidity / EMI / EMC conditions
- Intel® Tiger Lake-H i7-11850HE Processors (up to 8 cores)
- NVidia RTX A2000 (3328 CUDA)
- Up to 64GB DDR4 SO-DIMM
- 1 x single 3G-SDI support 1080p60 H.264 H/W Encode
- 2 x isolated CANbus 2.0B
- 2 x Swappable SSD Tray
- Compliant with MIL-STD-810
- 18V~36V MIL-STD-461/MIL-STD-1275

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, 2 x USB 2.0
Ethernet	2 x 10/100/1000 Ethernet Ports (1 X LAN form mini-PCIE LAN module card)
HD-SDI	1 x single 3G-SDI support 1080p60 H.264 H/W Encode
Power Type	18V ~ 36V DC IN MIL-STD 461 EMI DC Module
Storage	2 x2.5" SATA SSD (2x Swappable SSD Tray)
COM Port	2 x RS232/422/485 (function select by jumper)
CANbus	2 x isolated CANbus 2.0B
Operating Temperature	-40°C to +60°C
Dimension	220mm(W) x 350mm(L)x88mm(H)

FRONT I/O

X1	4 x USB 2.0, CANbus x 2, VGA with D38999 connector
X2	1 x USB 3.0 with D38999 connector
X3	2 x LAN 2x RS232 with D38999 connector
X4	HD-SDI with BNC connector
X5	1 x DC-in with D38999 connector

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) 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) 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 509.7 Salt Spray (50±5)g/L 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)</p>
Reliability	<p>No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001 Certified Quality Program.</p>
MIL-STD-461	<p>CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 200 MHz - 3.2 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</p>
MIL-STD-1275	<p>Steady State –20V~33V, Surge Low – 18V/500ms, Surge High – 100V/500ms Emitted spikes Injected Voltage surges Emitted voltage surges Voltage ripple (2V) Voltage spikes Starting Operation Reverse polarity</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-EHG2	THOR200-X11-TX	THOR200-X11-HML2	THOR200-D15EG
CPU	I7-11850HE(8C)	I7-11850HE(8C)	W-11865MLE(8C)	Xeon D-1577(16C)
GPU	NVIDIA RTX A2000	NVIDIA RTX A2000	NVIDIA RTX A2000	NVIDIA RTX A2000
RAM	DDR4 64GB	DDR4 64GB	DDR4 64GB	DDR4 96GB
RAID	RAID 0/1	RAID 0/1	RAID 0/1	RAID 0/1
Storage	2x2.5" SATA Drive	2x2.5" SATA Drive	2x2.5" SATA Drive	2x2.5" SATA Drive
PSU	18V~36V MIL-STD-461	18V~36V MIL-STD-461	18V~36V MIL-STD-461	18V~36V MIL-STD-461
I/O	1 x USB3.0	1 x USB3.0	1 x USB3.0	1 x USB3.0
	4 x USB2.0; 2 x RS232	4 x USB2.0; 2 x RS232	4 x USB2.0; 2 x RS232	4 x USB2.0; 2 x RS232
	2 x LAN	2 x LAN	2 x LAN	2 x LAN
	1 x DVI	HD-SDI, CANbus	1 x DVI	1 x DVI
	1 x VGA	1 x VGA	1 x VGA	1 x VGA
	1 x DC	1 x DC	1 x DC	1 x DC

Appearance



Dimension

