

TANK-XM813

High-Performance 15th Generation Intel® Core™
Ultra Processor Fanless Embedded Computer



Features

- » Supported CPUs:
LGA1851 socket supports 15th generation Intel® Core™ Ultra 9/7/5 processor(Arrow Lake -S)(MAX 65W TDP)
- 2 x 2.5GbE ports
- » Multiple USB ports and serial ports
- » Multiple internal expansion boards for flexible selection
- » Various optional backplanes and chassis
- » CE/FCC compliant

Specifications

Form factor	
SBC Form Factor	» CPU:
	LGA1851 socket supports 15th generation Intel® Core™ Ultra 9/7/5 processor(Arrow Lake -S)(MAX 65W TDP)
	» Chipset:
	W880
	» System Memory:
	2 x SO-DIMM DDR5 5600 (16GB pre-installed) (up to 96GB)
	» Power:
	DC Jack: 12 V~28 V DC
	Terminal Block: 12 V~28 V DC
I/O Interface	
I/O Ports	» USB:
	7 x USB 3.2 Gen2
	» Ethernet:
	2 x RJ-45: 2.5 GbE by Intel® I226V (colay I226LM)
	» COM Port:
	2 x RS-232/422/485
	4 x RS-232
	» Digital I/O:
	12-bit Digital I/O (6-in/ 6-out)
	» Display:
	1 x HDMI
	1 x DP++
	1 x USB4 (Display+USB 3.2 Gen2)
	» Audio:
	1 x Mic
	1 x Line-out
	» TPM:

	Support Intel PTT
	2x10pin TPM connector
	» Watchdog Timer:
	Programmable 1 ~ 255 sec/min
Expansion Slots	
Expansion Slots	» M.2:
	1 x 2280 M-key (PCIe Gen4 x4)
	1 x 2230 A-key (USB+PCIe x1, supports vPRO)
	» Backplane:
	Optional
System	
Cooling method / System Fan	Fanless
	4-pin external system fan connector
Drive Bays	2 x 2.5" SATA 6Gb/s HDD/SSD bay
Indicator&Buttons	
Buttons	1 x Power button
	1 x Reset button
	1 x AT/ATX switch
Indicators	1 x Power LED (green)
	1 x HDD LED (yellow)
Physical Characteristics	
Construction	Extruded aluminum alloy
Color	
Color	Black
Dimensions	
Dimensions	230.6 x 256.04 x 76.2
Weight	
Weight	3.2/3.5 kg
Environment	
Operating Temperature	-20°C ~ 60°C with air flow (CPU TDP35W & SSD)
	-20°C ~ 50°C with air flow (CPU TDP65W & SSD)
Humidity	10% ~ 95% non-condensing
Operating Vibration	Half-sine wave shock 5G, 11ms, 100 shocks per axis (SSD)
Operating Shock	MIL-STD-810G 514.6C-1 (SSD)
Safety & EMC	CE/FCC compliant
OS Support	
OS Support	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-XM813-U9AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra9, 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U7AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra7, 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U5AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra5, 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-R10	Ruggedized Fanless Embedded System Support Intel® 15th CPU, 2xDDR5 SODIMM, 1xHDMI, 1xDP++, USB4, 2xRS232/422/485, 4xRS232, 7xUSB3.2, 12xGPIO, Audio, 12~28V DC and RoHS

Packing List

1 x Wall mounting kit	1 x Screw pack
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2 x Terminal block	
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