

TANK-XM813

High-Performance Intel® Core™ Ultra Processors (Series 2) Fanless Embedded Computer



Features

» Supported CPUs:

LGA1851 socket supports Intel® Core™ Ultra Processors (Series 2)(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 Intel® Core™ Ultra Processors (Series 2)(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:
	1 x 2.5 GbE by Intel® I226LM controller
	1 x 2.5 GbE by Intel® I226-V controller
	» 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 Gen 2x2)
	» 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 (RAID 0/1 supported)
Indicator&Buttons	
Buttons	1 x Power button
	1 x Reset button
	1 x AT/ATX switch
Indicators	1 x Power LED (Red)
	1 x HDD LED (Green)
Physical Characteristics	
Construction	Extruded aluminum alloy
Color	
Color	Black
Dimensions	
Dimensions	230.6 x 255 x 68.7
Weight	
Weight	3.2/3.6 kg
Environment	
Operating Temperature	-20°C ~ 60°C (CPU TDP35W & SSD)
	-20°C ~ 50°C (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 Compatible	
OS Compatible	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-XM813-U9BD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 9 285 2.5GHz (up to 5.6 GHz, 24-core, TDP 65W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U9AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 9 285T 1.4GHz (up to 5.4 GHz, 24-core, TDP 35W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U7BD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 7 265 2.4GHz (up to 5.3 GHz, 20-core, TDP 65W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U7AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 7 265T 1.5GHz (up to 5.3 GHz, 20-core, TDP 35W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U5BD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 5 225 3.4GHz (up to 4.9GHz, 10-core, TDP 65W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS
TANK-XM813-U5AD-R10	Ruggedized Fanless Embedded System With Intel® Ultra 5 225T 2.5GHz (up to 4.9GHz, 10-core, TDP 35W), 16GB RAM, 1xHDMI, 1xDP++, USB4, 12~28V DC and RoHS

Packing List

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