TANK-XM811-D5

High-Performance Intel® Core™ Processors (Series 2) & 14th/13th/12th Gen Intel® Core™ DDR5 Fanless Embedded Computer



Features

» Supported CPUs: 12th/13th/14th Generation Intel® Core™ Processor

» Intel® Core™ processors (Series 2) (Bartlett Lake-S)

» 2 x 2.5G Ethernet 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:
	12th/13th/14th Generation Intel® Core™ Processor
	Intel® Core™ processors (Series 2) (Bartlett Lake-S)
	» Chipset:
	R680E
	» System Memory:
	2 x SO-DIMM DDR5 4800/5600 MT/s (Actual memory frequency depends on the CPU SKU)
	» Power:
	DC Jack: 12V-28V DC
	Terminal Block: 12V-28V DC
	» Consumption:
	Maximum: 24V @ 4.92A (Intel® Core™ 7 Processor 251TE with 32GB memory)
	Typical: 24V @ 2.08A (Intel® Core™ 7 Processor 251TE with 32GB memory)
I/O Interface	
I/O Ports	» USB:
	8 x USB 3.2 Gen 2 (10Gb/s)
	» 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 (6-in/ 6-out) DB15
	» Audio:
	1 x MIC in, 1 x Line out
	» Display:

	1 x HDMI™, 1 x DP++
	» TPM:
	Intel® PTT (Firmware TPM 2.0)
	Optional TPM module via 20-pin header (IEI TPM module P/N:TPM-IN03)
	» Watchdog Timer:
	Programmable 1 ~ 255 sec/min
Expansion Slots	
Expansion Slots	» M.2:
	1 x 2280 M-key (PCIe Gen4 x4)
	1 x 2230 E-key (USB2.0 + PCIe Gen3 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)
Physical Characteristics	
Construction	Extruded aluminum alloys
Color	
Color	Black C
Dimensions	
Dimensions	230.6 x 256.04 x 76.2
Weight	
Weight	3.33 / 3.7 kg
Environment	
Operating Temperature	-20°C ~ 60°C with air flow (CPU TDP 35W&SSD)
	-20°C ~ 50°C with air flow (CPU TDP 65W&SSD)
Humidity	10% ~ 95% non-condensing
Operating Vibration	MIL-STD-810H 514.8C-I with SSD
Operating Shock	IEC 60068-2-27 half-sine, 5G, 11ms, 100 shocks with SSD
Safety & EMC	CE, FCC
OS Compatible	
OS Compatible	Microsoft Windows 10 / Windows 11, Linux

Ordering Information

TANK-XM811-D5-i9AD-R10	Ruggedized Fanless Embedded System With Intel® i9-12900TE, 16GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS
TANK-XM811-D5-i7AC-R10	Ruggedized Fanless Embedded System With Intel® i7-12700TE, 8GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS
TANK-XM811-D5-i5AC-R10	Ruggedized Fanless Embedded System With Intel® i5-12500TE, 8GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS
TANK-XM811-D5-C9AD-R10	Ruggedized Fanless Embedded System With Intel® Core™ 9 273PTE, 16GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS
TANK-XM811-D5-C7AD-R10	Ruggedized Fanless Embedded System With Intel® Core™ 7 253PTE, 16GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS
TANK-XM811-D5-C5AD-R10	Ruggedized Fanless Embedded System With Intel® Core™ 5 223PTE, 16GB DDR5 RAM, 1xHDMI, 1xDP++, 2x2.5GbE Lan, 2xRS232/422/485, 4xRS232, 8xUSB3.2, 12xGPIO, 12~28V DC and RoHS

Packing List

1 x Mounting bracket	1 x Screw pack
2 x Terminal block	1 x SATA cable