# 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

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|---|---|
| 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 |