

TANK-XM811

IEI Embedded System with 12th Gen Intel® Core™ CPU

- Supported CPUs:

Intel® Core™ i5-12500TE 1.9GHz (up to 4.3GHz, 6-core, 35W TDP)

Intel® Core™ i7-12700TE 1.4GHz (up to 4.6GHz, 12-core, 35W TDP)

- 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



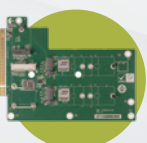
External fan



Expansion
chassis



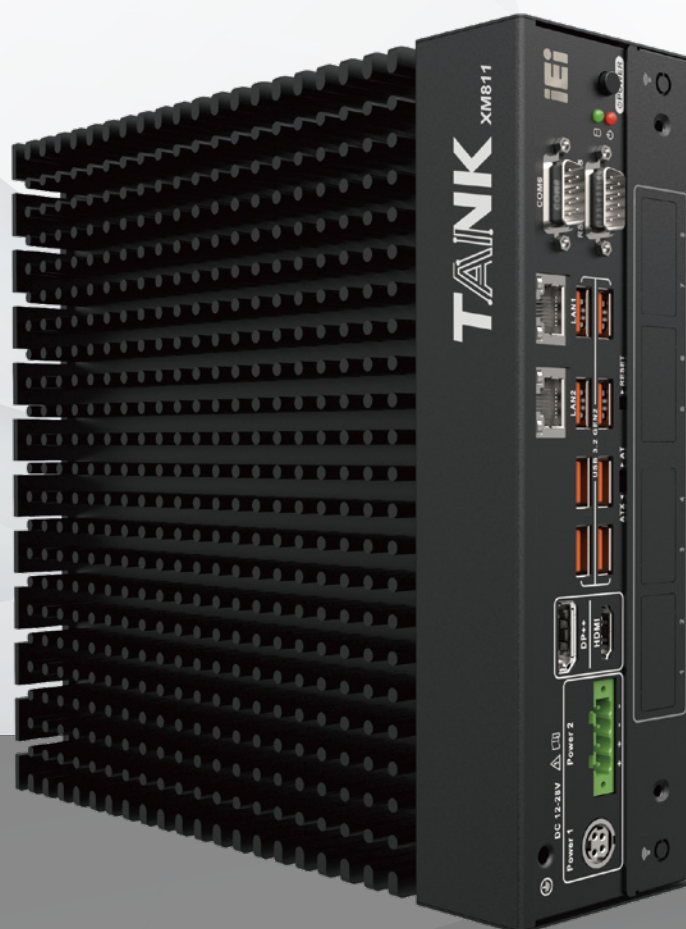
Expansion
backplane



Multifunctional
IO card



PoE card



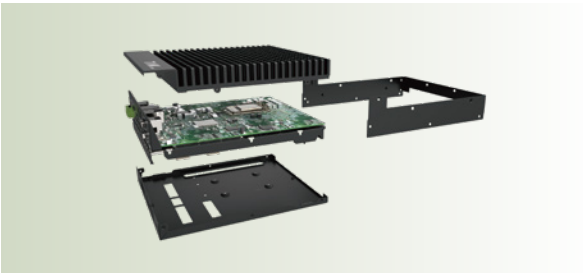
TANK-XM811

The TANK-XM811 is equipped with 12th Gen Intel® Core™ processors, dual-channel DDR4 memory, dual independent display, two 2.5GbE ports, multiple I/O connectors. It also supports various optional modules, expansion slots and RoHS compliance.



Modular Design, Easy to Install

The mainboard is secured to the support bracket to prevent PCB from bending or warping. The three-layer structure consisting of heat spreader, mainboard and baseboard makes it easier to install CPU, memory and HDD, compared with the former TANK series.



Flexible Expansion

Different expansion requirements can be met. Dual-slot and four-slot SKUs are provided for selection. Customers can choose the type of expansion slot according to their needs.



Support High-performance Graphics Card

With IEI power board, it can support 3060 and other advanced graphics cards.
*Specified power adapter is required.



Modular Board Design

It supports various optional modules, such as M.2 expansion card, 8-port PoE expansion card, etc.

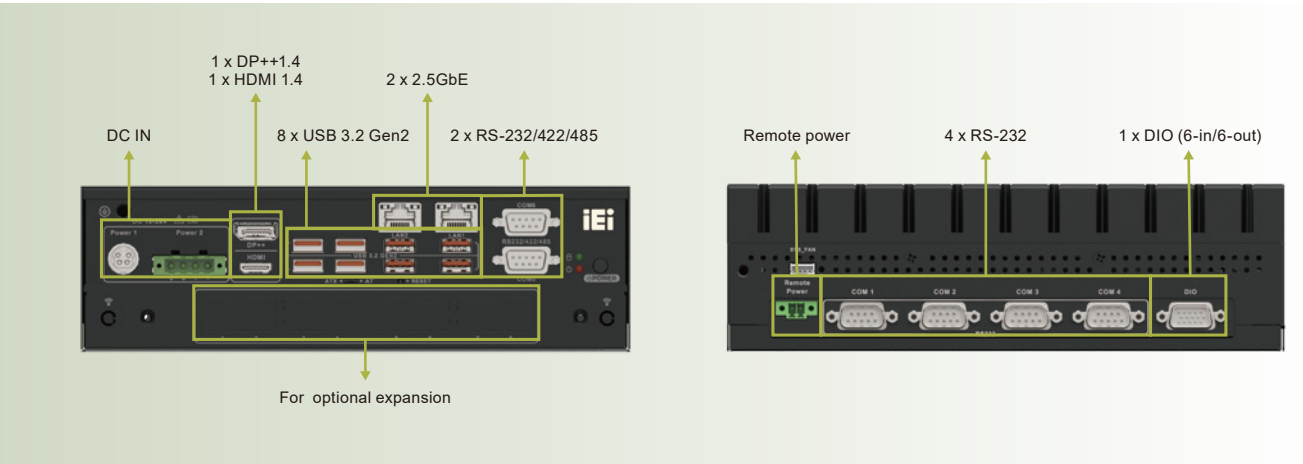
GPOE-XM81-8P-R10	I/O expansion module for TANK 81 series, 8 x 2.5G LAN with PoE
TXIOB-XM81-A-R10	I/O expansion module for TANK 81 series, 2 x M.2 B Key, 1 x M.2 A Key, 1 x PCIe Mini
TXIOB-XM81-C-R10	I/O expansion module for TANK 81 series, 8 x 2.5G LAN
TXIOB-XM81-D-R10	I/O expansion module for TANK 81 series, 4 x 2.5G LAN, 2 x 10G LAN
GPOE-XM81-6P-R10	I/O expansion module for TANK 81 series, 4 x 2.5G & 2 x 10G LAN with PoE

Support 35W & 65W CPU

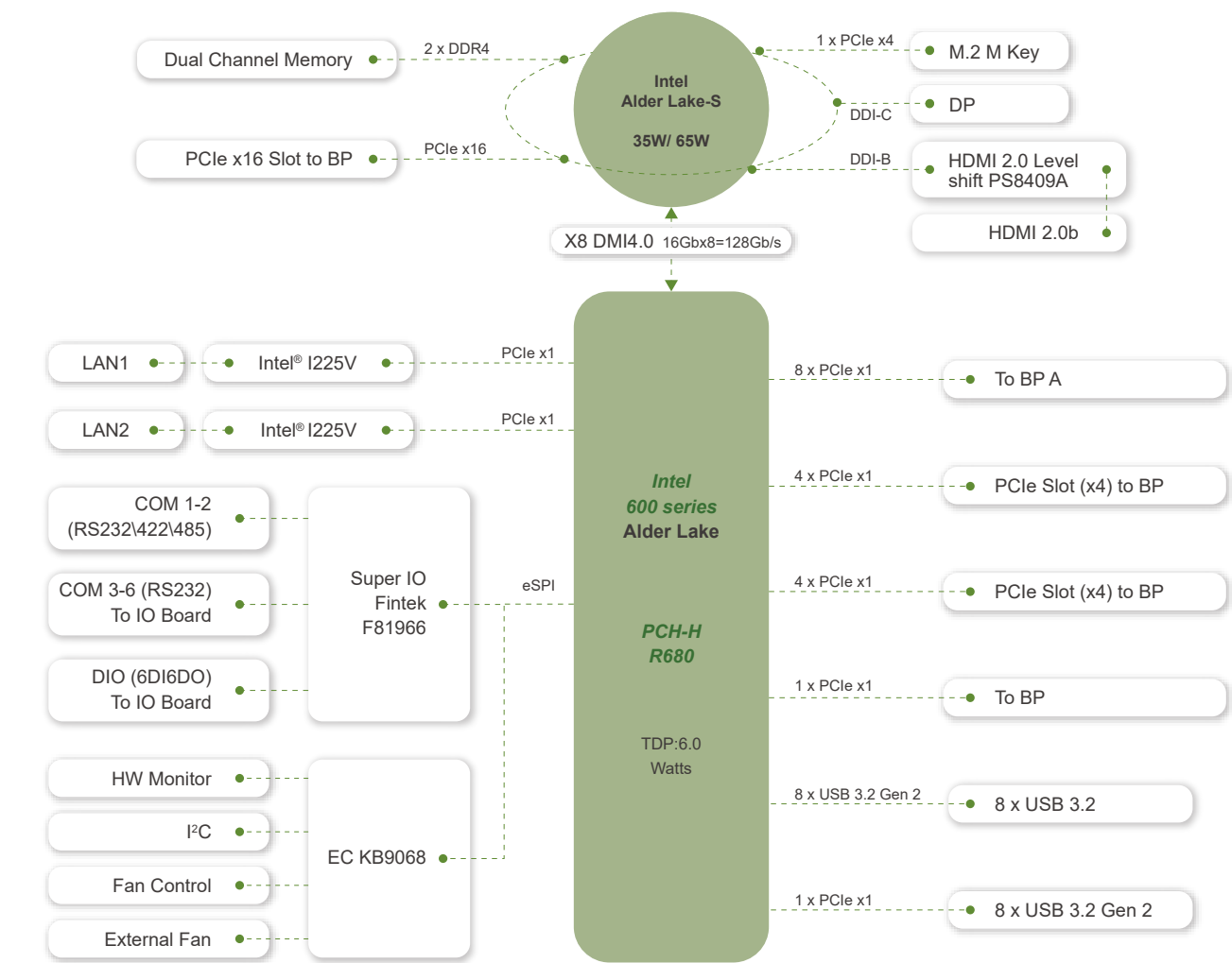
Operating temperature:

- With 35w CPU (or 65W CPU PL1 & PL2, default 35W) -20°C ~ 60°C
- With 65w CPU -20°C ~ 50°C

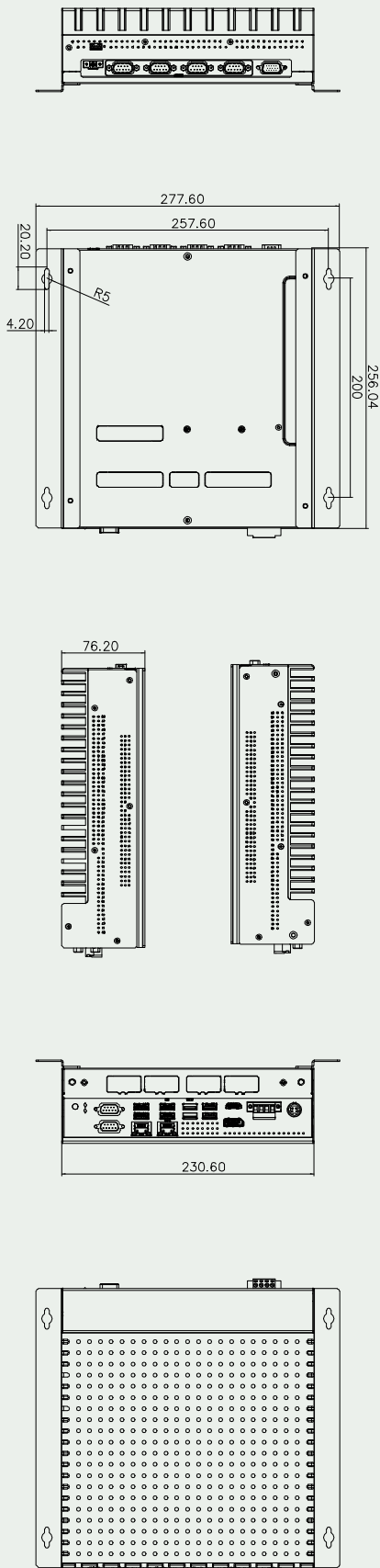
TANK-XM811 I/O Interface



TANK-XM811 Block Diagram



Dimensions



Specifications

Model Name		TANK-XM811
Chassis	Color	Black C
	Dimensions (WxDxH) (mm)	230.6 x 256.04 x 76.2
	System Fan	Fanless
	Chassis Construction	Extruded aluminum alloys
Motherboard	CPU	Intel 12 th TDP 35W/65W
	Chipset	R680
Storage	Memory	2 x SO-DIMM DDR4 3200 (8GB pre-installed) (up to 64GB)
	HDD Bay	1 x 2.5 SATA 6Gb/s HDD/SSD bay
I/O Interfaces	Ethernet	2 x RJ45, 1 x I225V 2.5GbE (colay I225LM)
	USB 3.2 Gen2 (10Gb/s)	8
	COM	2 x RS-232/422/485, 4 x RS-232
	Digital I/O	12-bit (6-in/6-out) DB15
Internal Expansions	Display Interface	1 x DP++, 1 x HDMI
	M.2	1 x M.2 M key (2280, PCIe x4) 1 x M.2 A key (2230, USB+PCIe x1, supports vPRO)
	Expansion Backplane	Optional
	Power Input	12 ~ 28V DC
Power	Remote Power	1 x 2-pin
	Power Consumption	TBD
Reliability	Mounting	Wall mount
	Operating Temperature	*-20°C ~ -60°C with air flow (SSD), 10% ~ 95% non-condensing
	Storage Temperature	-40°C ~ 85°C, 10% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 100 shocks per axis (SSD)
	Operating Vibration	MIL-STD-810G 514.6C-1 (with SSD)
	Weight (Net/Gross)	TBD
	Safety / EMC	CE/FCC
	Watchdog Timer	Programmable 1 ~ 255 sec/min
Supported OS		Windows® 10 IoT Enterprise/ Linux

Packing List

1 x Screw pack	1 x User manual	1 x Power cable
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*Refer to the specifications for the optional items in detail

Ordering Information

Model	Description
TANK-XM811-i5AC-R10	Ruggedized Fanless Embedded System with Intel® Core™ i5, 8GB RAM, 1 x HDMI, 1 x DP++, 12~28V DC and RoHS
TANK-XM811-i7AC-R10	Ruggedized Fanless Embedded System with Intel® Core™ i7, 8GB RAM, 1 x HDMI, 1 x DP++, 12~28V DC and RoHS

Options

Part No.	Description
63040-010180-200-RS	Adapter Power;FSP;FSP180-ABAN3;9NA1804008;Active PFC;Vin:90~264VAC;180W;Dim:7 5.6x151.3x25.4mm;Plug=6.5mm;Cable=1500mm;Erp(NO LOAD 0.5W);Vout:19VDC;Din 4Pin/ lock;CCL;RoHS
32000-000002-RS	European power cord
IDD-X1228150-R10*	150W DC/DC 12~28V input 12V output

*It is required to use this power module when adding an expansion card that consumes 75W power (or above).

Optional Expansion Backplane

TXCBP-XM81-1A-R10	Expansion backplane module for TANK 81 Series, 1 slot, 1 x PCIe x16
TXCBP-XM81-2A-R10	Expansion backplane module for TANK 81 Series, 2 slot, 1 x PCIe x16 & 1 x PCIe x4
TXCBP-XM81-2B-R10	Expansion backplane module for TANK 81 Series, 2 slot, 2 x PCIe x8
TXCBP-XM81-4B-R10	Expansion backplane module for TANK 81 Series, 4 slot, 2 x PCIe x8 & 2 x PCIe x4 w/ external power supply
TXCBP-XM81-4A-R10	Expansion backplane module for TANK 81 Series, 4 slot, 1 x PCIe x16 & 2 x PCIe x4 & 1 x PCIe x1
TXCBP-XM81-4C-R10	Expansion backplane module for TANK 81 Series, 4 slot, 1 x PCIe x16 & 2 x PCI & 1 x PCIe x4
TXCBP-XM81-G1-PW-R10	Expansion backplane module for TANK 81 Series, 4 slot, 1 x PCIe x16 & 1 x PCIe x4 w/ external power supply
TXCBP-XM81-G2-PW-R10	Expansion backplane module for TANK 81 Series, 6 slot, 2 x PCIe x8 & 2 x PCIe x4 w/ external power supply

Optional Expansion Chassis

TXC-XM81-1S-R10	1-slot expansion chassis for TANK 81 Series
TXC-XM81-3S-R10	3-slot expansion chassis for TANK 81 Series
TXC-XM81-4S-R10	4-slot expansion chassis for TANK 81 Series
TXC-XM81-G1-R10	One GPU expansion chassis for TANK 81 Series
TXC-XM81-G2-R10	Dual GPU expansion chassis for TANK 81 Series

Optional Internal Expansion Boards

GPOE-XM81-8P-R10	I/O expansion module for TANK 81 Series, 8 x 2.5G LAN with PoE
TXIOB-XM81-A-R10	I/O expansion module for TANK 81 Series, 2 x M.2 B Key, 1 x M.2 A Key, 1 x PCIe Mini
TXIOB-XM81-C-R10	I/O expansion module for TANK 81 Series, 8 x 2.5G LAN
TXIOB-XM81-D-R10	I/O expansion module for TANK 81 Series, 4 x 2.5G LAN & 2 x 10G LAN
GPOE-XM81-6P-R10	I/O expansion module for TANK 81 Series, 4 x 2.5G & 2 x 10G LAN with PoE