

TANK-XM81 Series Expansion Products

The TANK-XM81 series allows you to add various functionality through internal IO expansion boards and external expansion slots.

The internal IO expansions can support up to 8 PCIe x1 and 5 USB 2.0, and is compatible with various combinations, for example, multiple network cards and M.2 B key modules.

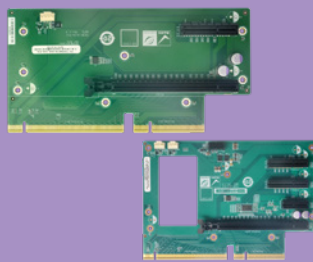
The external expansions provide multiple PCIe slot options, including PCIe x16, PCIe x4 and PCIe x1, giving users more flexibility for solution integration.

Note: For different expanded functions, PCIe assignments need to be paired with different BIOS assignments. Please contact IEI for details.

Comprehensive Expansion Options for Various Requirements



Embedded Box



Backplane



Chassis

Selection Guide



Chassis Name	TXC-XM81-3S		TXC-XM81-4S		
Backplane Name	TXCBP-XM81-2A	TXCBP-XM81-2B	TXCBP-XM81-4A	TXCBP-XM81-4B	TXCBP-XM81-4C
					
Slot 1	PCIe x16	PCIe x16 (PCIe x8 Signal)	PCIe x16	PCIe x16 (PCIe x8 Signal)	PCIe x16
Slot 2	N/A	N/A	PCIe x1	PCIe x4	PCIe x4
Slot 3	PCIe x4	PCIe x16 (PCIe x8 Signal)	PCIe x4	PCIe x16 (PCIe x8 Signal)	PCI
Slot 4	N/A	N/A	PCIe x4	PCIe x4	PCI
System Fan (Chassis)	1 x 5cm (RS5015B12VH, 6000rpm, 35db) 1 x 5cm (Optional)		1 x 8cm (FD1280, 3800rpm, 40db)		
System Fan (Backplane)	1 x 4-pin (1x4)	2 x 4-pin (1x4)	2 x 4-pin (1x4)	2 x 4-pin (1x4)	1 x 4-pin (1x4)
Power Connector (Backplane)	N/A	N/A	1 x 8-pin (2x4)	1 x 8-pin (2x4)	N/A
Max. Length of Add-on Card (mm)	223.18		224.40		
Additional Power Board	N/A		IDD-X1228150 (adds a terminal block on rear I/O)		
Dimension (W x H x D) (mm)	230.6 x 69.16 x 255		230.6 x 100 x 255		
With Host Dimension (W x H x D) (mm)	230.6 x 137.86 x 255		230.6 x 168.5 x 255		



Chassis Name	TXC-XM81-G1	TXC-XM81-G2
Backplane Name	TXCBP-XM81-4A	TXCBP-XM81-G2
		
Slot 1	PCIe x16	PCIe x16 (PCIe x8 Signal)
Slot 2	PCIe x1	N/A
Slot 3	PCIe x4	PCIe x16 (PCIe x8 Signal)
Slot 4	PCIe x4	N/A
Slot 5	N/A	PCIe x4
Slot 6	N/A	PCIe x4
System Fan (Chassis)	1 x 8cm (FD1280, 3800rpm, 40db)	
System Fan (Backplane)	2 x 4-pin (1x4)	2 x 4-pin (1x4)
Power Connector (Backplane)	1 x 8-pin (2x4)	1 x 8-pin (2x4)
Max. Length of Add-on Card (mm)	339.8	
Additional Power Board	IDD-X1228150 (adds a terminal block on rear I/O)	
Dimension (W x H x D) (mm)	230.6 x 166.3 x 370.4	230.6 x 207.1 x 370.4
With Host Dimension (W x H x D) (mm)	230.6 x 168.7 x 370.4	230.6 x 209.86 x 370.4

TXIOB-XM81-A

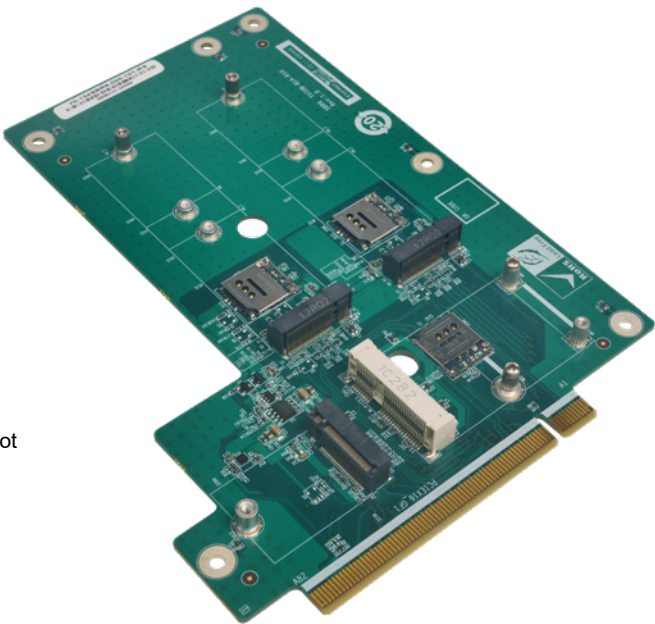
Expansion IO Board Module

Features

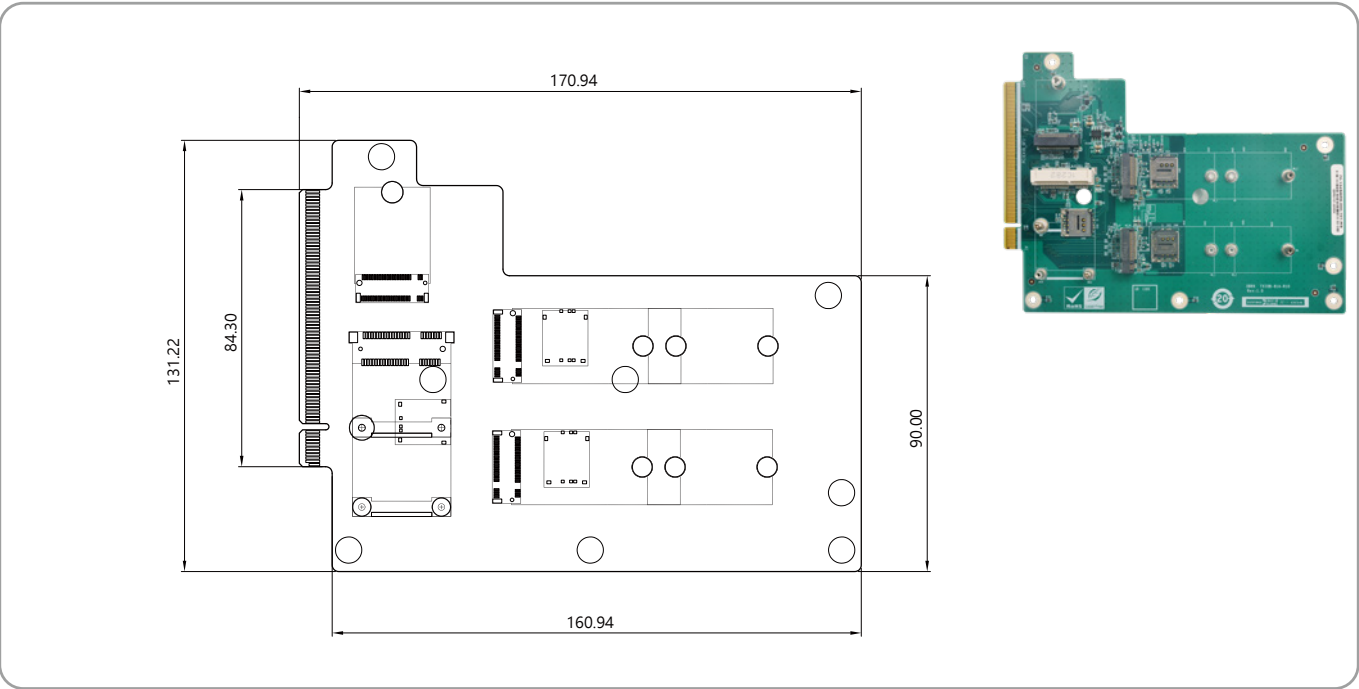
- Support Full-Size PCIe Mini
- Support M.2 A Key 2230
- Support M.2 B Key 3042/52/80 with SIM Slot

Specifications

- External Connector:
 - 1 x Full-Size Mini PCIe (PCIe x1 & USB2.0) with SIM Slot
 - 1 x M.2 A Key 2230 (PCIe x1 & USB2.0)
 - 1 x M.2 B Key (M.2_B1) 3042/52/80 (PCIe x1 & USB3.2¹) with SIM Slot
 - 1 x M.2 B Key (M.2_B2) 3042/52/80 (PCIe x2²) with SIM Slot
- Operating Temperature: 0°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions (LxW): 131.22 mm x 170.94 mm
- CE/FCC compliant



Dimensions (Unit: mm)



Ordering Information

Model	Description
TXIOB-XM81-A-R10	TANK-XM81 series expansion IO board module, 2 x M.2 B Key, 1 x M.2 A Key, 1 x PCIe Mini

Note: 1. The USB 3.2 signal of the M.2_B1 connector is not supported in the TANK-XM810.
2. The default signal of the M.2_B2 connector is PCIe x1. To configure as PCIe x2, please consult with IEI.

Packing List

1 x Screw pack

GPOE-XM81-8P

8-Port PoE LAN Card

Features

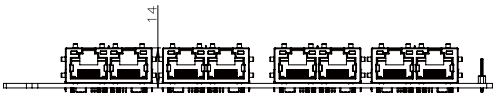
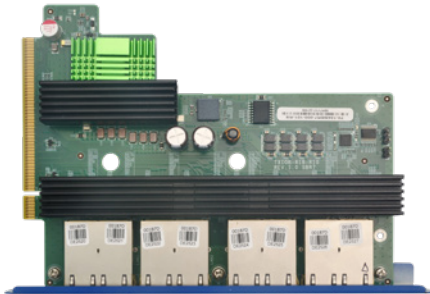
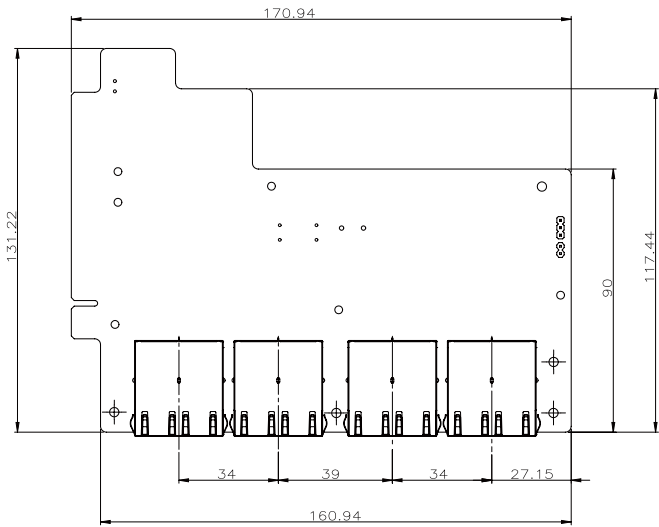
- Support IEEE 802.3at for PoE (Power over Ethernet) with 30 watts per port
- Support link aggregation/jumbo frames (9 Kbyte)

Specifications

- Interface: 8 x PCI Express® x1
- Ethernet: 8 x Intel® I225-V controller
- PoE Capability
- IEEE 802.3at with 30W / 52V per port (Total power 60W)
- Operating Temperature: 0°C ~ 60°C
- Operating Humidity: 5% ~ 95%, non-condensing
- CE/FCC compliant



Dimensions (Unit: mm)



Ordering Information

Model	Description
GPOE-XM81-8P-R10	TANK-XM81 series expansion IO board module, 8 x 2.5G LAN with PoE
TXIOB-XM81-8P2-R10	TANK-XM81 series expansion IO board module, 8 x 2.5G LAN

Packing List

1 x Screw pack

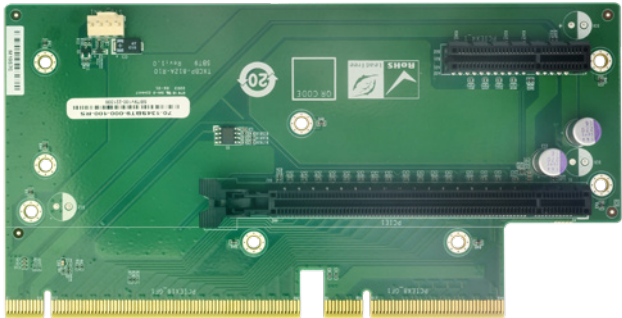
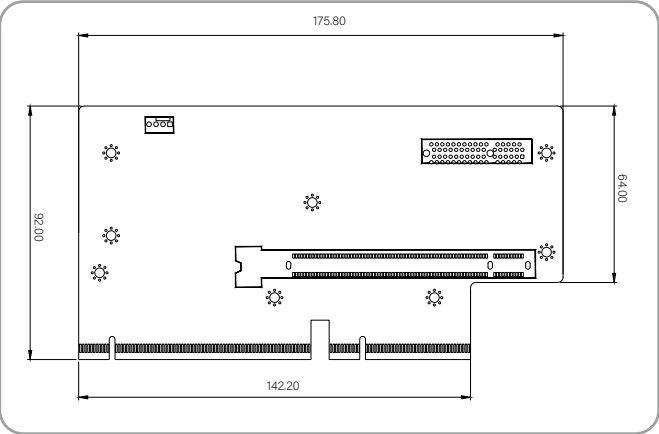
TXCBP-XM81-2A

2-Slot Backplane

Specifications

- 2-slot backplane for TANK-XM81 series expansion chassis
- One PCIe x16 & one PCIe x4 slot
- One system fan connector
- Compatible chassis: TXC-XM81-3S

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-2A-R10	TANK-XM81 series expansion backplane module, 2-slot, one PCIe x16 & one PCIe x4
TXC-XM81-3S-R10	TANK-XM81 series 3-slot expansion chassis

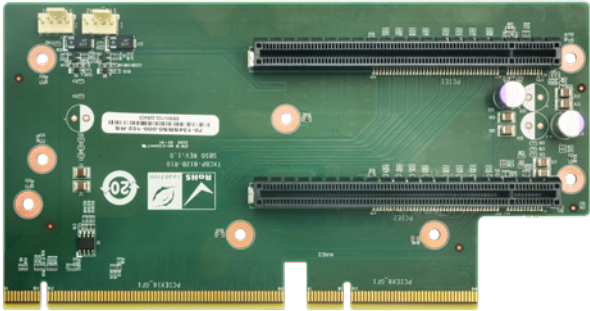
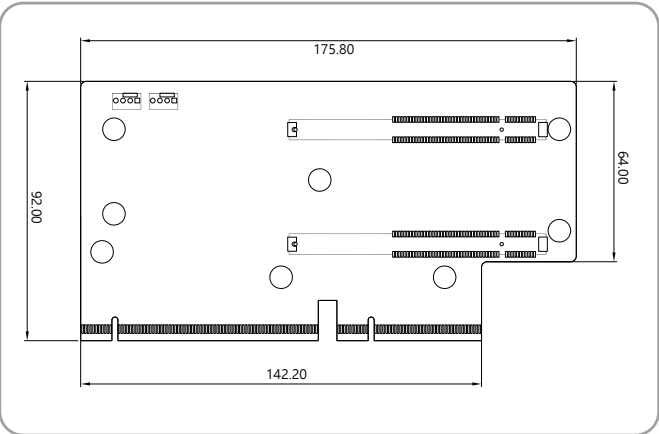
TXCBP-XM81-2B

2-Slot Backplane

Specifications

- 2-slot backplane for TANK-XM81 series expansion chassis
- Two PCIe x16 (PCIe x8 signal)
- Two system fan connectors
- Compatible chassis: TXC-XM81-3S

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-2B-R10	TANK-XM81 series expansion backplane module, 2-slot, two PCIe x8
TXC-XM81-3S-R10	TANK-XM81 series 3-slot expansion chassis

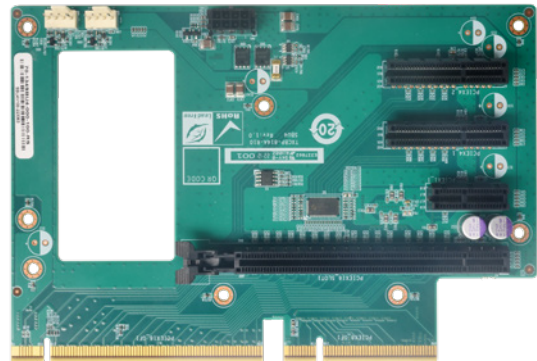
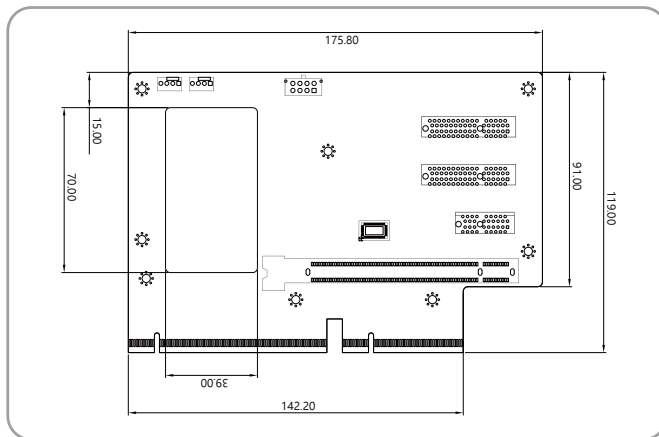
TXCBP-XM81-4A

4-Slot Backplane

Specifications

- 4-slot backplane for TANK-XM81 series expansion chassis
- One PCIe x16 & one PCIe x1 & two PCIe x4 slot
- Two system fan connectors
- Compatible chassis: TXC-XM81-4S/TXC-XM81-G1
- Support an additional power supply board

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-4A-R10	TANK-XM81 series expansion backplane module, 4-slot, one PCIe x16, two PCIe x4, one PCIe x1, w/ power connector
TXC-XM81-4S-R10	TANK-XM81 series 4-slot expansion chassis
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module
TXC-XM81-G1-R10	TANK-XM81 series single GPU expansion chassis

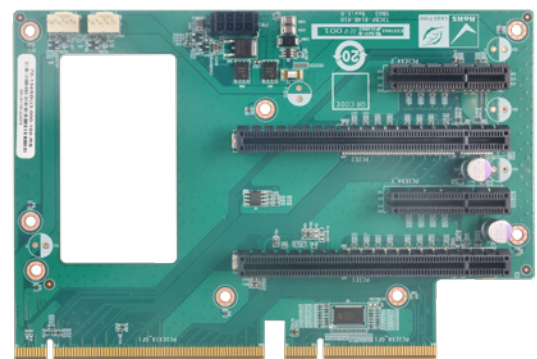
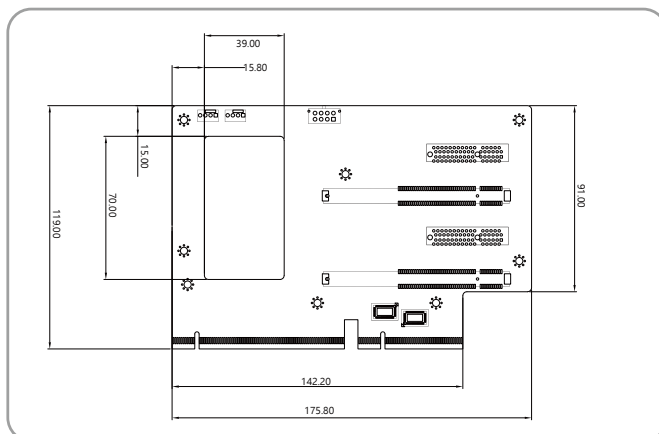
TXCBP-XM81-4B

4-Slot Backplane

Specifications

- 4-slot backplane for TANK-XM81 series expansion chassis
- Two PCIe x16 (PCIe x8 signal) & two PCIe x4 slot
- Two system fan connectors
- Compatible chassis: TXC-XM81-4S
- Support an additional power supply board

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-4B-R10	TANK-XM81 series expansion backplane module, 4-slot, two PCIe x8 & two PCIe x4, w/ power connector
TXC-XM81-4S-R10	TANK-XM81 series 4-slot expansion chassis
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module

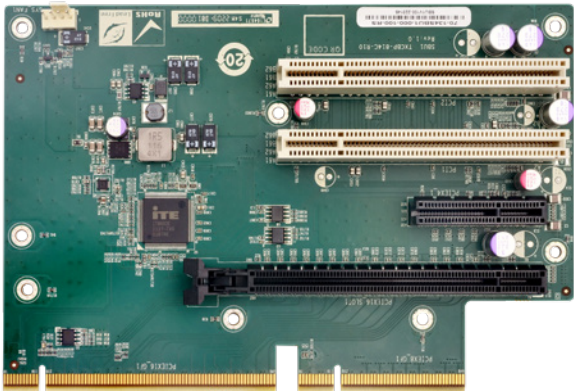
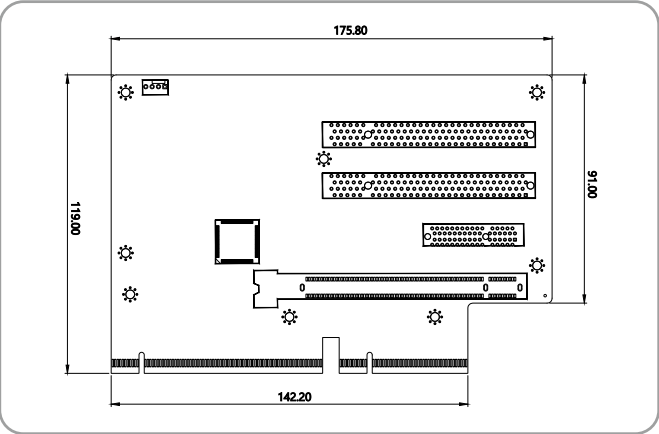
TXCBP-XM81-4C

4-Slot Backplane

Specifications

- 4-slot backplane for TANK-XM81 series expansion chassis
- One PCIe x16 & one PCIe x4 & two PCI Slot
- One system fan connector
- Compactible chassis: TXC-XM81-4S

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-4C-R10	TANK-XM81 series expansion backplane module, 2-slot, one PCIe x16 & one PCIe x4 & two PCI
TXC-XM81-4S-R10	TANK-XM81 series 4-slot expansion chassis

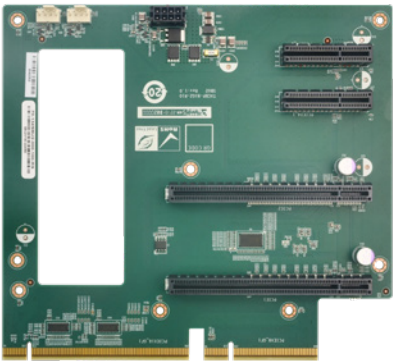
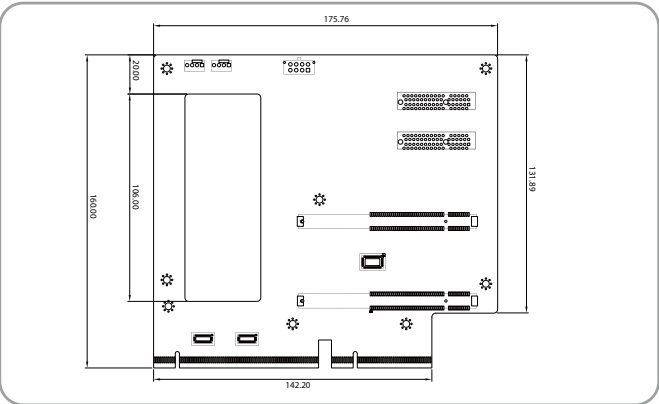
TXCBP-XM81-G2

4-Slot Backplane

Specifications

- 4-slot backplane for TANK-XM81 series expansion chassis
- Two PCIe x16 (PCIe x8 signal) & two PCIe x4 slots
- Two system fan connectors
- Compatible chassis: TXC-XM81-G2
- Support an additional power supply board

Dimensions (Unit: mm)



Ordering Information

Model	Description
TXCBP-XM81-G2-PW-R10*	TANK-XM81 series expansion backplane module, 6-slot, two PCIe x8 & two PCIe x4, w/ power connector
TXC-XM81-G2-R10	TANK-XM81 series dual GPU expansion chassis
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module

*Based on project discussion, it might have MOQ criteria. Please contact with Sales Account.

IDD-X1228150

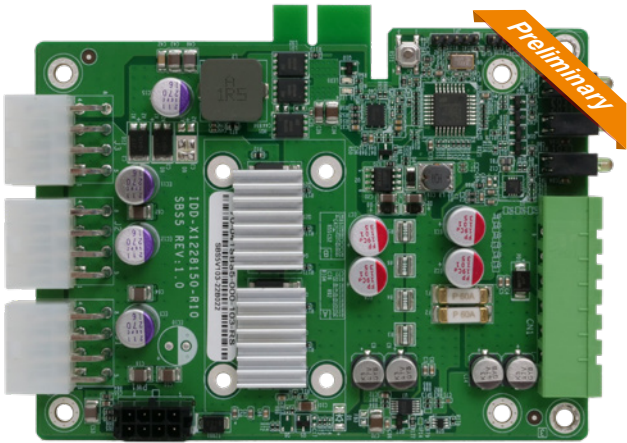
150W/380W Power Module

Features

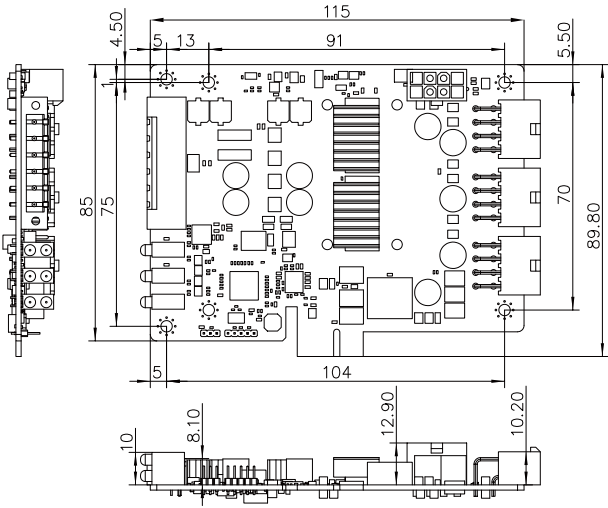
- 150W (16-28V) /380W (12V ONLY) output
- 12V&16-28V input
- Up to 95% efficiency
- RoHS compliant

Specifications

- Input:12V & 16-28V DC
- Output (max):12V@32A (12V input) or 12V@12.5A (16-28V input)
- Performance characteristics
 - Noise & ripple: <25 mV
 - Load regulation: <120 mV
 - Efficiency: Up to 95%
- Dimensions (mm): 89.8 x 135
- Operating temperature: 0°C ~ 70°C



Dimensions (Unit: mm)



Ordering Information

Model	Description
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module
32110-000200-100-RS	Wire cable; 3;300mm

Packing List

1 x Power cable for BP	1 x Power cable for graphics card
1 x IO blank	1 x Screw pack
1 x Terminal block	

SF-TANK-XM81

Expansion Fan Module

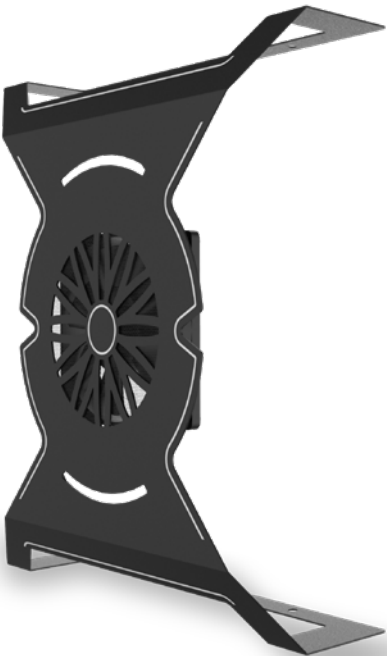
The expansion fan module conforming to the design of the TANK-X81 series can be easily installed on the top of the aluminum extrusion, allowing the heat on the surface to be air-cooled and dissipated by fan.

Specifications

Model Name	SF-TANK-XM81
Description	Expansion fan module
Material	Heavy duty metal
Color	Black
Fan Dimensions (mm)	80 x 80 x 15
Bearing Type	Two ball bearing
Fan Speed (RPM)	3800
Noise Level (dBA)	40
Air Flow (CFM)	35.77
Life Expectancy (hrs)	6500

Ordering Information

Model	Description
SF-TANK-XM81-R10	External fan for TANK-XM81 Series



TXC-XM81-3S

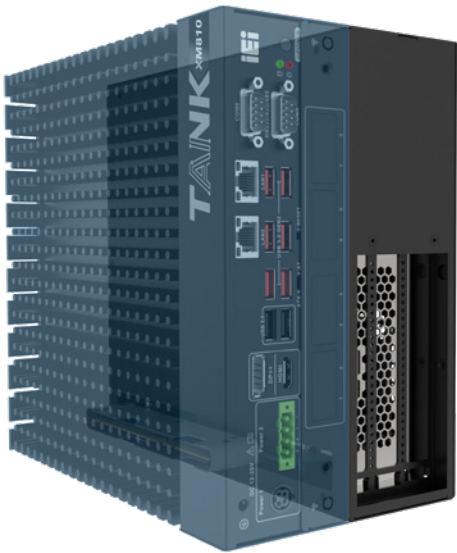
3-slot Expansion Chassis

Features

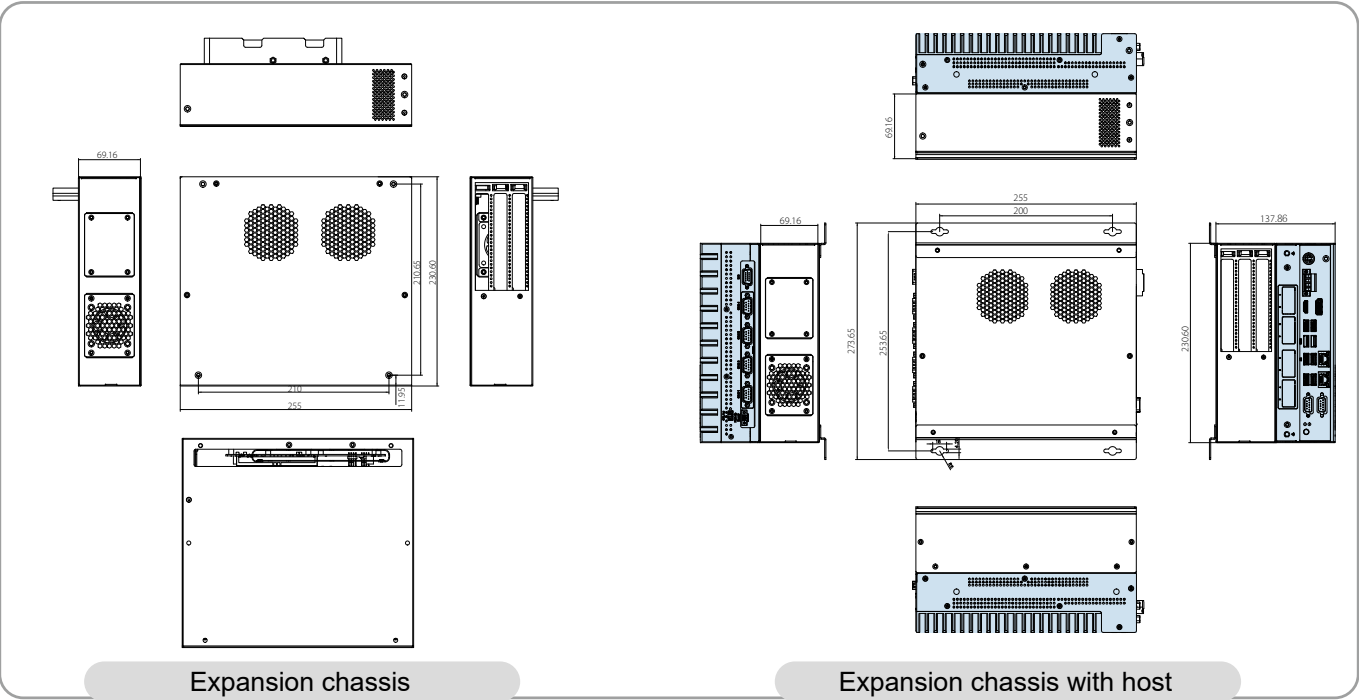
- 3-slot half-size chassis
- One 5cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power

Specifications

Model Name	TXC-XM81-3S
Description	Heavy duty metal
Expansion Slots	3 slots
Cooling Fans	1 x 5cm (6000rpm, 35db)
Color	Black
Maximum Length of Expansion Card	223mm
Dimensions (DxWxH) (mm)	230.6 x 69.16 x 255 230.6 x 137.86 x 255 (with TANK-XM810)



Dimensions (Unit: mm)



Ordering Information

Model	Description
TXC-XM81-3S-R10	TANK-XM81 series 3-slot expansion chassis
TXCBP-XM81-2A-R10	TANK-XM81 series expansion backplane module, 2-slot, one PCIe x16 & one PCIe x4
TXCBP-XM81-2B-R10	TANK-XM81 series expansion backplane module, 2-slot, two PCIe x8
41009-0288C2-00-HF*	Fan filter bracket
31100-000499-RS*	Fan; +12V DC; 4PIN; RUNDA; 50*50*15mm; 6000RPM; two ball bearing; 7.59CFM; 35dB; 70000hur; CE, TUV; CCL ;RoHS
44215-050101-RS*	Fan retention screws

NOTE: 41009-0288C2-00-HF*, 31100-000499-RS* and 44215-050101-RS* need to be used together.

Packing List

1 x Mounting bracket	1 x Screw pack
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TXC-XM81-4S

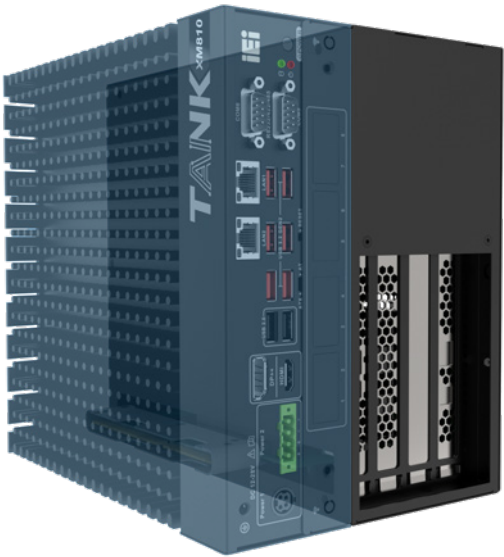
4-slot Expansion Chassis

Features

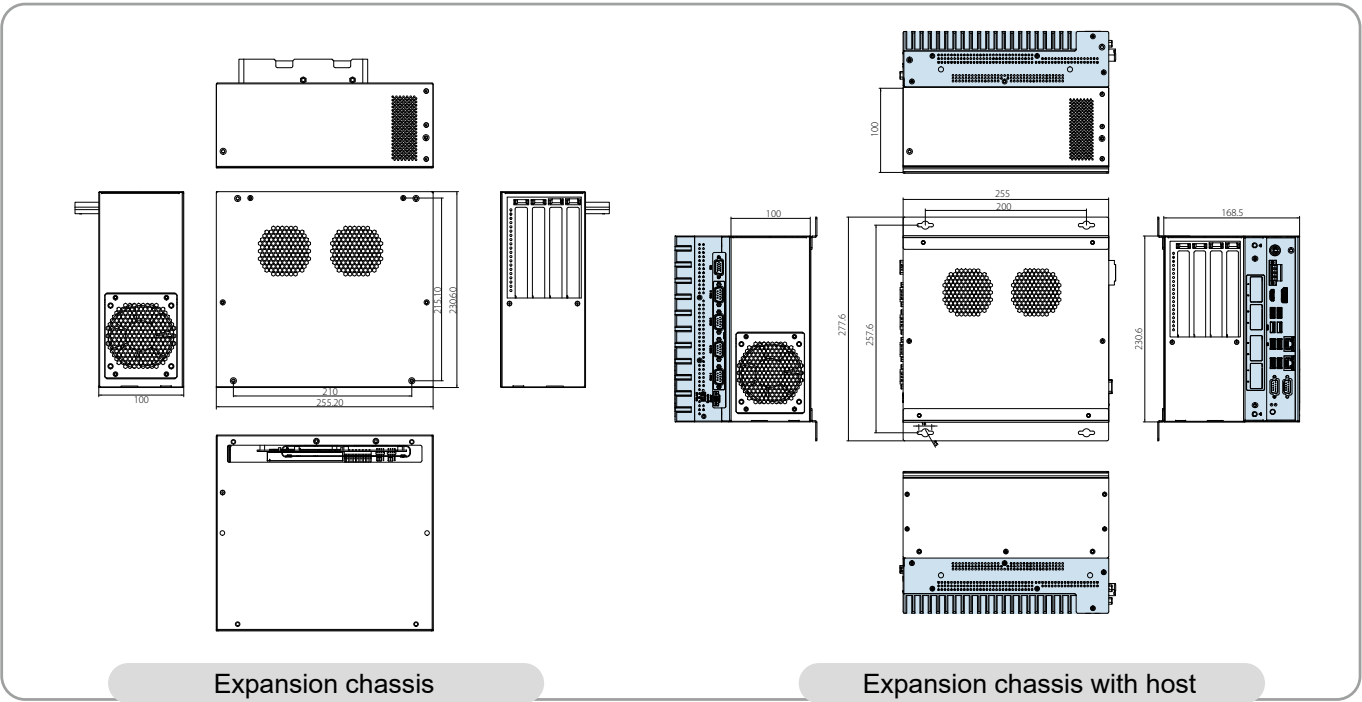
- 4-slot half-size chassis
- One 8cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power
- Support IEI expansion power board, providing up to 380W power to GPU cards

Specifications

Model Name	TXC-XM81-4S
Construction	Heavy duty metal
Expansion Slots	4 slots
Cooling Fans	1 x 8cm (3800rpm,40db)
Color	Black
Max Length of Expansion Card	224.4mm
Dimensions (DxWxH) (mm)	230.6 x 100 x 255 230.6 x 168.50 x 255 (with TANK-XM810)



Dimensions (Unit: mm)



Ordering Information

Model	Description
TXC-XM81-4S-R10	TANK-XM81 series 4-slot expansion chassis
TXCBP-XM81-4A-R10	TANK-XM81 series expansion backplane module, 4-slot, one PCIe x16, two PCIe x4, one PCIe x1
TXCBP-XM81-4B-R10	TANK-XM81 series expansion backplane module, 4-slot, two PCIe x8 & two PCIe x4, w/ power connector
TXCBP-XM81-4C-R10	TANK-XM81 series expansion backplane module, 4-slot, one PCIe x16, two PCI, one PCIe x4
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module

Packing List

1 x Mounting bracket	1 x Screw pack
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TXC-XM81-G1

4-slot Single GPU Expansion Chassis

Features

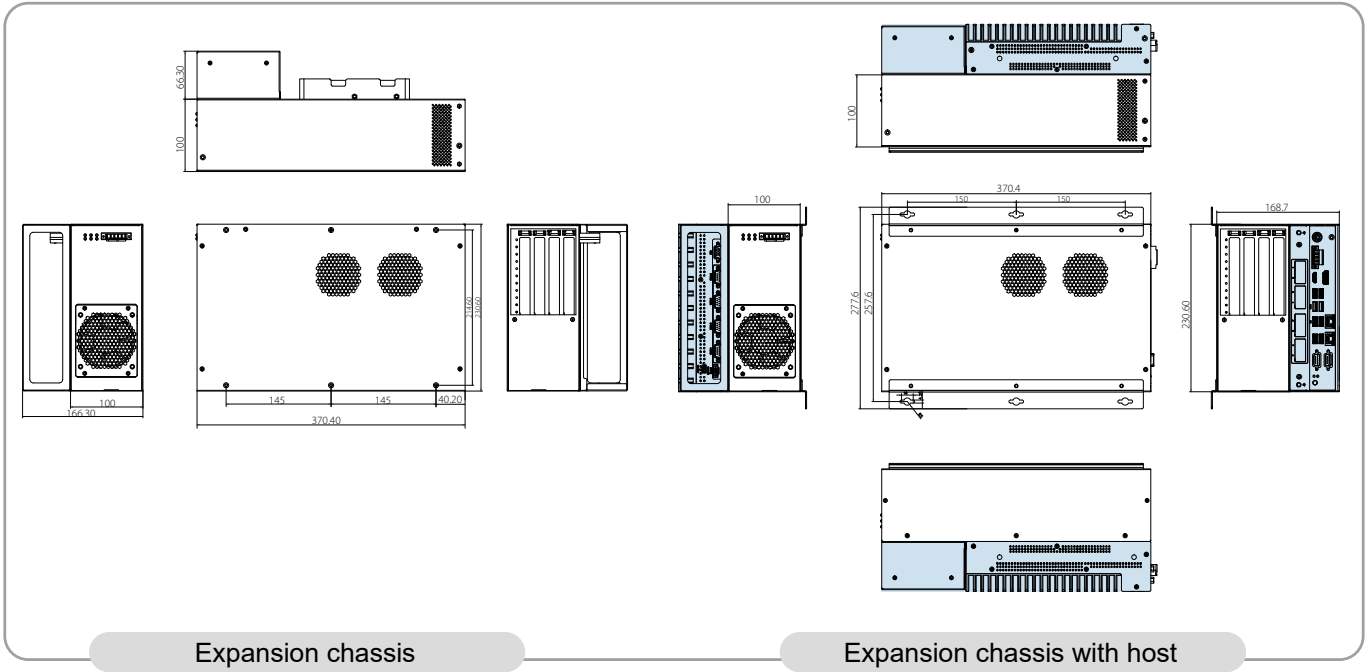
- 4-slot full-size chassis
- One 8cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power
- Support IEI expansion power board, providing up to 380W power to GPU cards

Specifications

Model Name	TXC-XM81-G1
Construction	Heavy duty metal
Expansion Slots	4 slots
Cooling Fans	1 x 8cm (3800rpm,40db)
Color	Black
Max Length of Expansion Card	339.8mm
Dimensions (DxWxH) (mm)	230.6 x 100 x 370.4 230.6 x 168.70 x 370.4 (with TANK-XM810)



Dimensions (Unit: mm)



Ordering Information

Model	Description
TXC-XM81-G1-R10*	TANK-XM81 series single GPU expansion chassis
TXCBP-XM81-4A-R10	TANK-XM81 series expansion backplane module, 4-slot, one PCIe x16 & one PCIe x4, w/ power connector
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module

*Based on project discussion, it might have MOQ criteria. Please contact with Sales Account.

Packing List

1 x Mounting bracket	1 x Screw pack
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TXC-XM81-G2

6-slot Dual GPU Expansion Chassis

Features

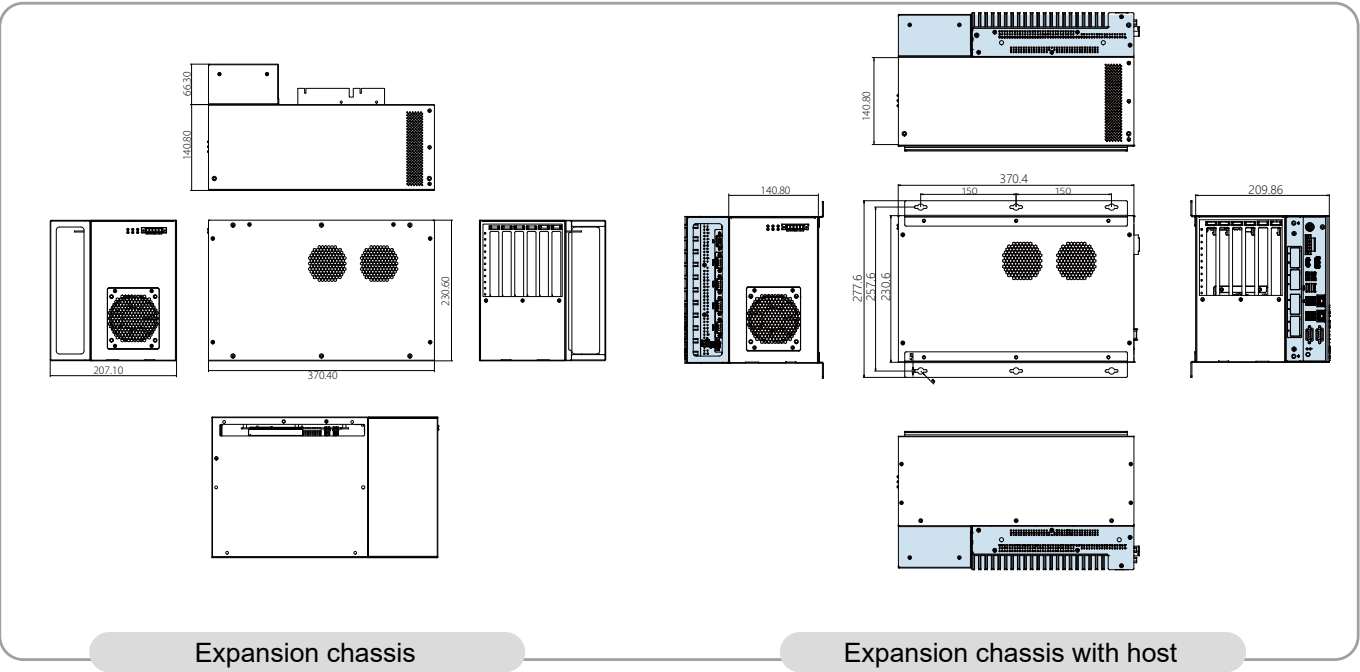
- 6-slot full-size chassis
- One 8cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power
- Support IEL expansion power board, providing up to 380W power to GPU cards

Specifications

Model Name	TXC-XM81-G2
Construction	Heavy duty metal
Expansion Slots	6 slots
Cooling Fans	1 x 8cm (3800rpm,40db)
Color	Black
Max Length of Expansion Card	339.8mm
Dimensions (DxWxH) (mm)	230.6 x 140.80 x 370.4 230.6 x 209.86 x 370.4 (with TANK-XM810)



Dimensions (Unit: mm)



Ordering Information

Model	Description
TXC-XM81-G2-R10*	TANK-XM81 series dual GPU expansion chassis
TXCBP-XM81-G2-PW-R10	TANK-XM81 series expansion backplane module, 6-slot, two PCIe x8 & two PCIe x4, w/ power connector
IDD-X1228150-R10	150W@16~28V or 380W@12V DC input 12V output power module

*Based on project discussion, it might have MOQ criteria. Please contact with Sales Account.

Packing List

1 x Mounting bracket	1 x Screw pack
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