

# TANK-XM81 Series Expansion Products

TANK-XM81 series products can add various combinations through internal IO expansion and external expansion slots.

Internal IO expansion mode. It can support up to 8 PCIe x1 and 5 USB2.0, can be compatible with various combination designs. For example, multiple network cards. B Key, M2, etc.

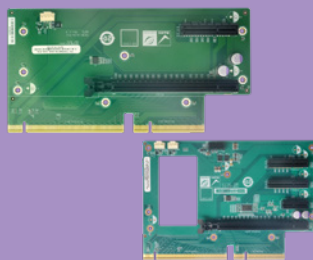
The external expansion slot provides a maximum of 1 PCIe x16, 2 PCIe x4, and 1 PCIe x1. Given the multiple PCIe slots support. Provide end users with more efficient solutions.

Note: For different extended functions. PCIe assignments need to be paired with different BIOS assignments. For details, please consult IEI

## Comprehensive Expansion Options for Various Requirements



**Embedded Box**








**Backplane**





**Chassis**

# Selection Guide



Chsaais Name	TXC-XM81-3S-R10		TXC-XM81-4S-R10		
Backplane Name	TXCBP-XM81-2A-R10 	TXCBP-XM81-2B-R10 	TXCBP-XM81-4A-R10 	TXCBP-XM81-4B-R10 	TXCBP-XM81-4C-R10 
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			PCIe x4	PCIe x4	PCI
System Fan (Chsaais)	1 x 5cm (RS5015B12VH, 6000rpm, 35db) 1 x 5cm (Optional)		1 x 8cm (R128025BU, 4500rpm, 44db)		
System Fan (Backplane)	1 * 1 x 4pin	2 * 1 x 4pin	2 * 1 x 4pin	2 * 1 x 4pin	1 * 1 x 4pin
Power con			2 x 5pin	2 x 5pin	
Power Connector (Backplane)	223.18		224.40		
ADD Power Board			IDD-X1228150 (Add the front IO phoenix terminal of the blank)		
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		



Chsaais Name	TXC-XM81-G1-R10	TXC-XM81-G2-R10
Backplane Name	TXCBP-XM81-G1-PW-R10 	TXCBP-XM81-G2-PW-R10 
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		PCIe x4
Slot 6		PCIe x4
System Fan (Chsaais)	1 x 8cm (3 FD1280-DP184C2AL, 800rpm, 40db)	
System Fan (Backplane)	2 * 1 x 4pin	2 * 1 x 4pin
Power con	2 x 5pin	2 x 5pin
Power Connector (Backplane)	339.8	
ADD Power Board	IDD-X1228150(Rear IO Phoenix Terminal)	
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-R10

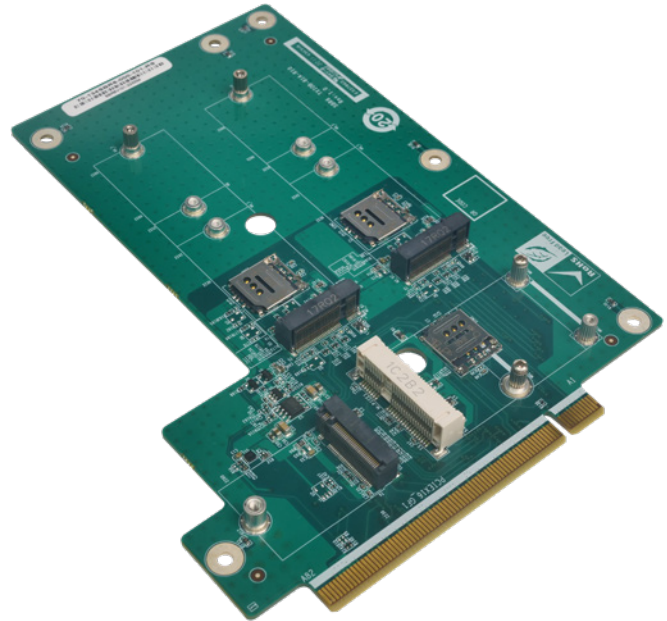
Expansion IO Board module

## Features

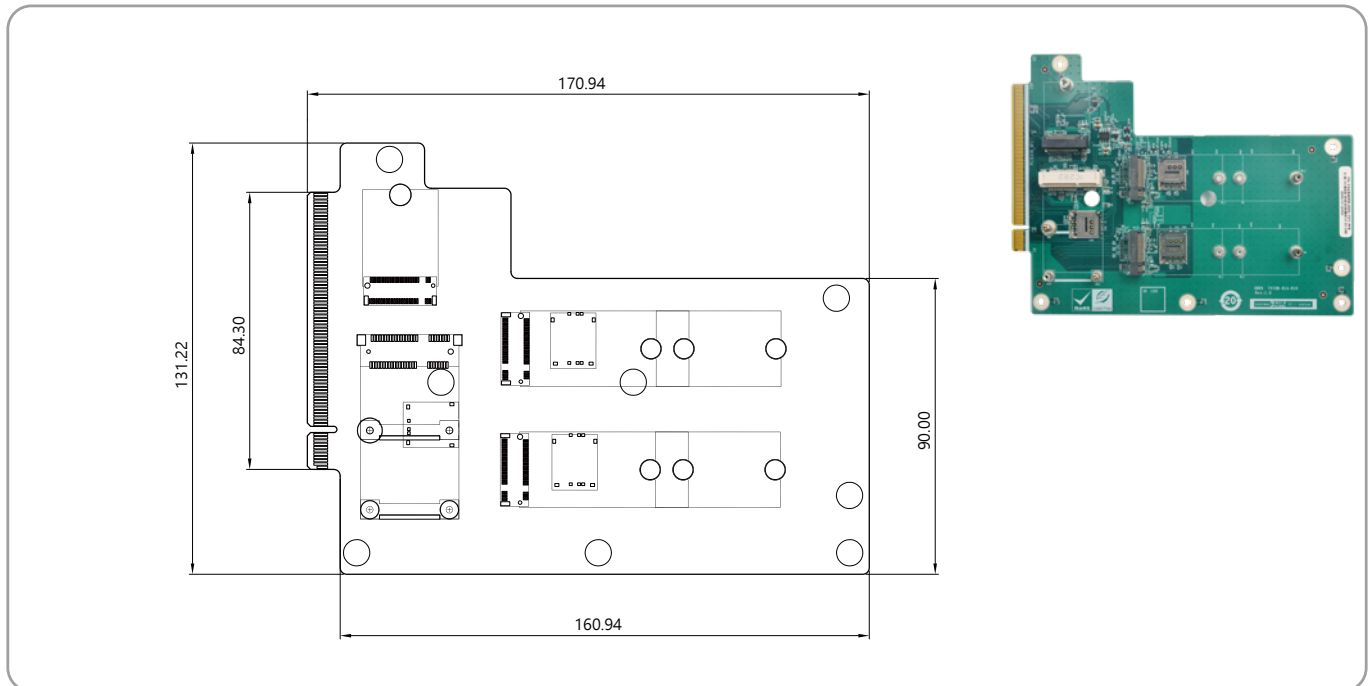
- Support Full-Size Mini PCIe
- Support M.2 A Key 2230 (PCIe x1 & USB2.0)
- Support M.2 B Key 3042/52/80 With SIM Slot

## Specifications

- Form Factor:
- 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 3042/52/80 (PCIe x1 & USB3.2) With SIM Slot
  - 1 x M.2 B Key 3042/52/80 (PCIe x2) 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, 1x MiniPCIe

Note: The use of this product requires a matching BIOS. Please contact IEI

# GPOE-XM81-8P-R10

## 8-Port POE LAN Card

### Features

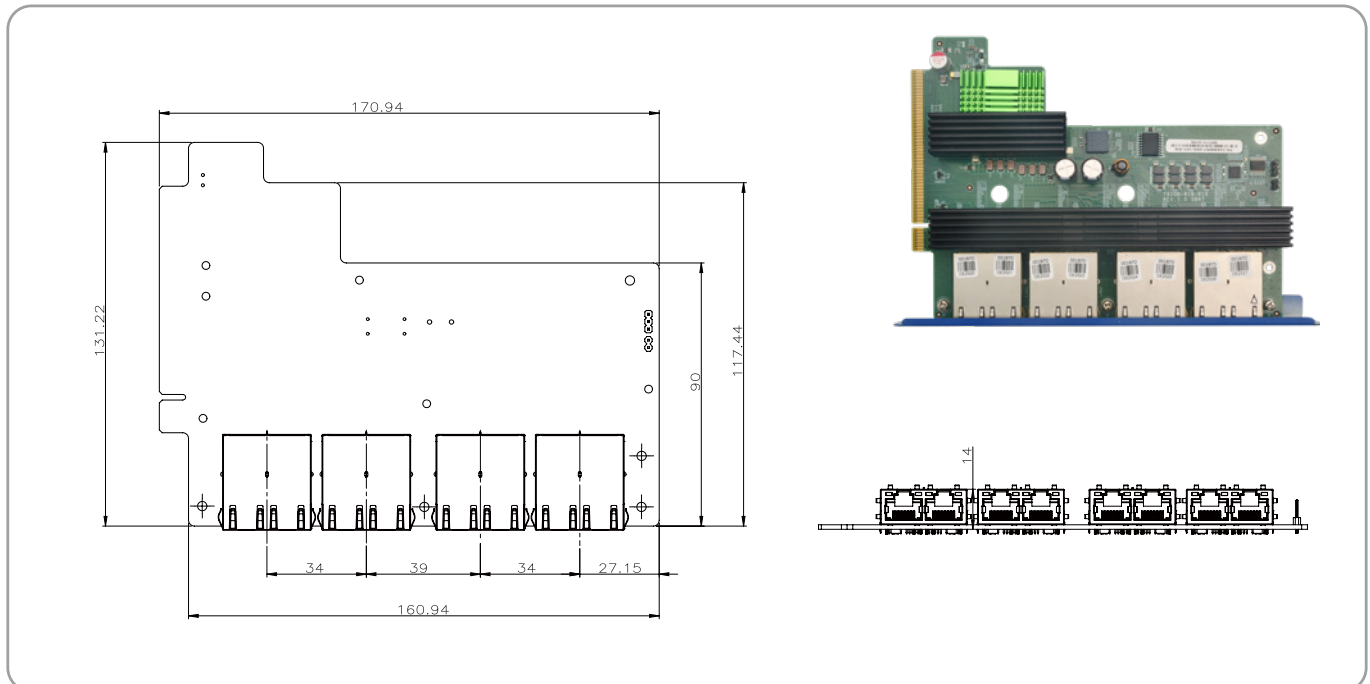
- Support for IEEE 802.3at for PoE (Power over Ethernet) with 30 watts per port
- Support link aggregation/jumbo frames (9 Kbyte)

### 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

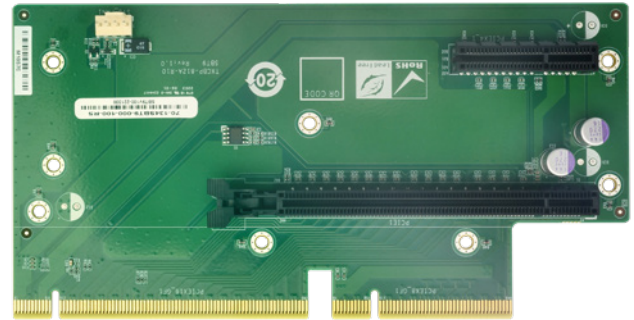
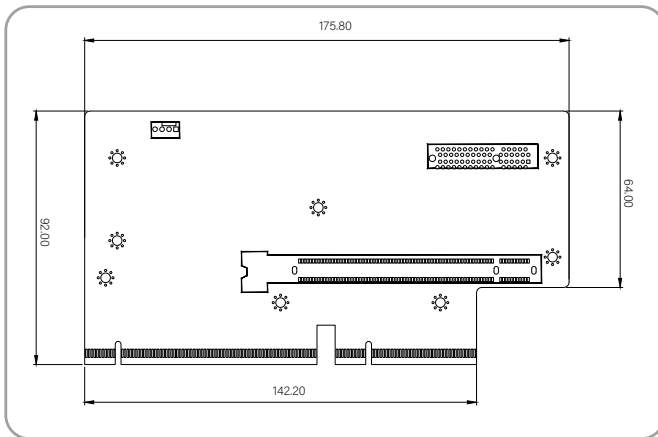
# TXCBP-XM81-2A-R10

2-Slot Backplane

## Specifications

- 2-slot backplane for TANK-XM81 series expansion chassis
- One PCIe x16 & one PCIe x4 Slot
- One system fan Connector
- Compactible chassis: TXC-XM81-3S-R10

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-2A-R10	TANK-XM81 series expansion backplane module, 2 Slot, 1xPCIe*16 & 1xPCIe*4
TXC-XM81-3S-R10	TANK-XM81 series 3 slot expansion chassis

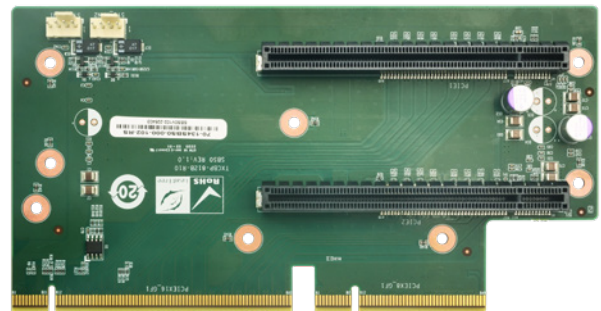
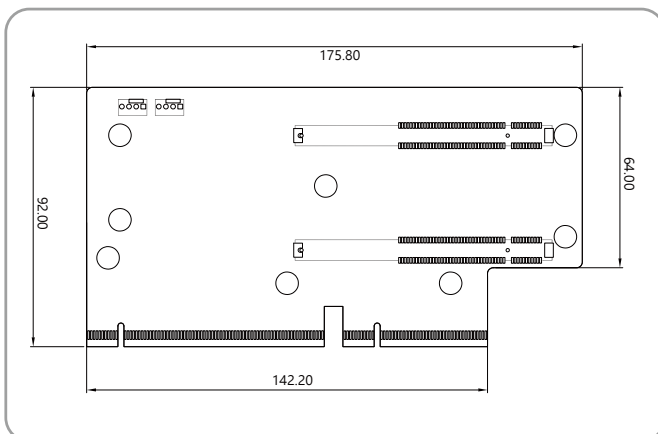
# TXCBP-XM81-2B-R10

2-Slot Backplane

## Specifications

- 2-slot backplane for TANK-XM81 series expansion chassis
- Two PCIe x16 (PCIe x8 Signal)
- Two system fan Connector
- Compactible chassis: TXC-XM81-3S-R10

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-2B-R10	TANK-XM81 series expansion backplane module, 2 Slot, 2xPCIe*8
TXC-XM81-3S-R10	TANK-XM81 series 3 slot expansion chassis

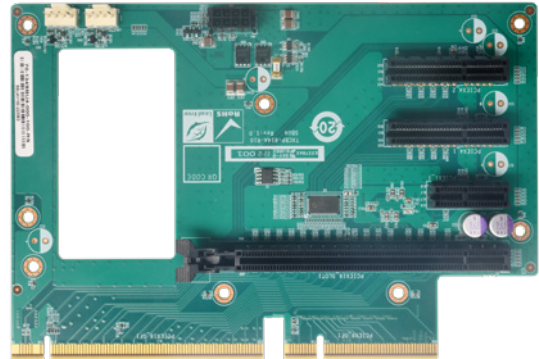
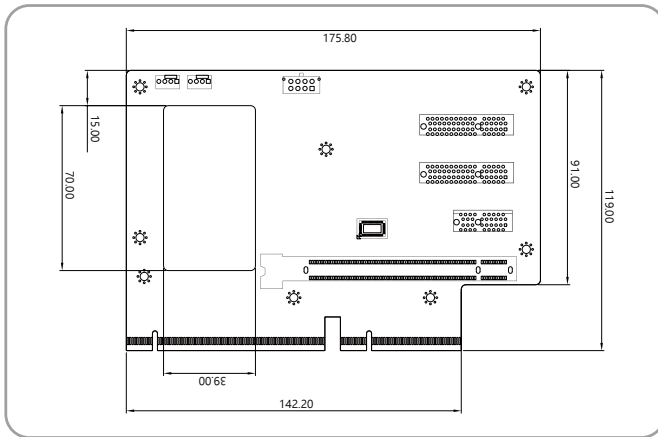
# TXCBP-XM81-4A-R10

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 Connector
- Compactible chassis: TXC-XM81-4S-R10
- Support extended power supply board

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-4A-R10	TANK-XM81 series expansion backplane module, 4 Slot, 1xPCIe*16 & 2xPCIe*4 & 1xPCIe*1
TXC-XM81-4S-R10	TANK-XM81 series 4 slot expansion chassis
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output Power Module

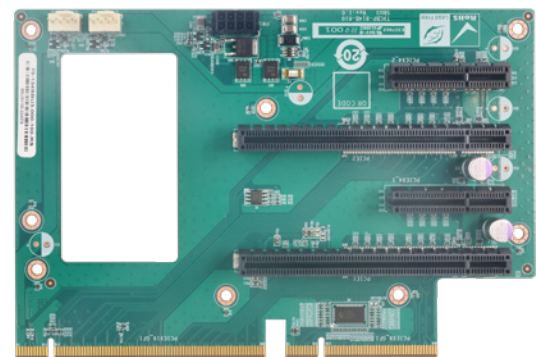
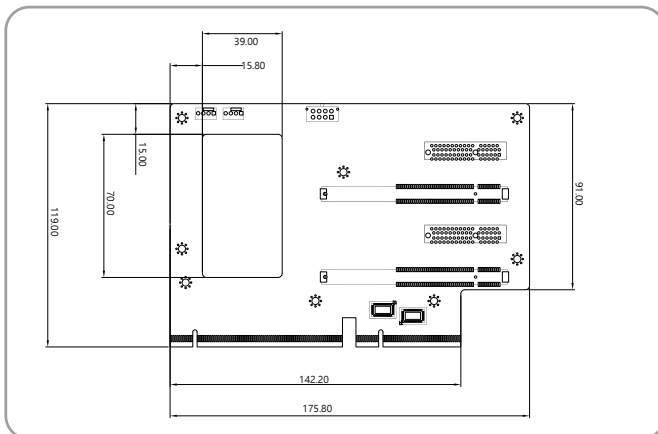
# TXCBP-XM81-4B-R10

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 Connector
- Compactible chassis: TXC-XM81-4S-R10
- Support extended power supply board

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-4B-R10	TANK-XM81 series expansion backplane module, 4 Slot, 2xPCIe*8 & 2xPCIe*4 W External power supply
TXC-XM81-4S-R10	TANK-XM81 series 4 slot expansion chassis
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output Power Module

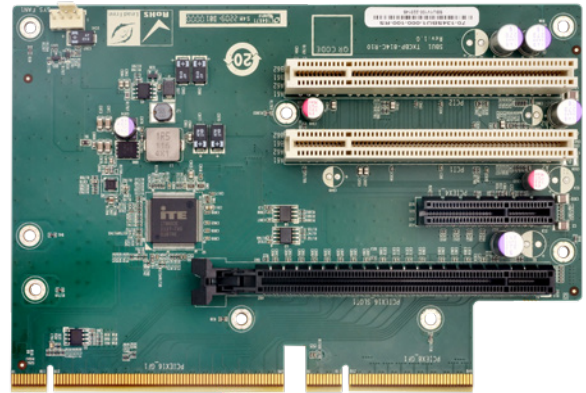
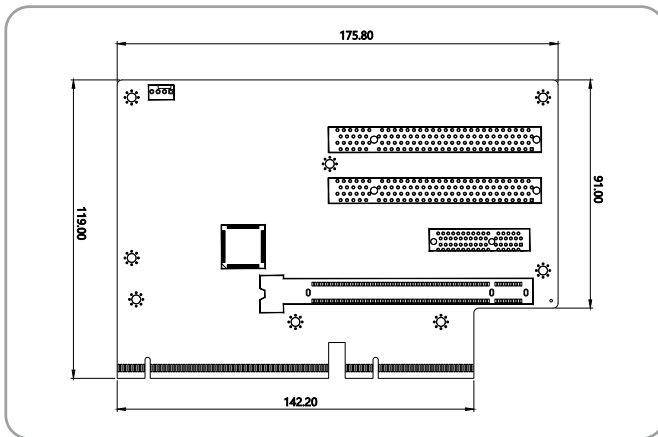
# TXCBP-XM81-4C-R10

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-R10

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-4C-R10	TANK-XM81 series expansion backplane module, 2 Slot, 1xPCIe*16 & 1xPCIe*4
TXC-XM81-4S-R10	TANK-XM81 series 4 Slot Expansion Chassis

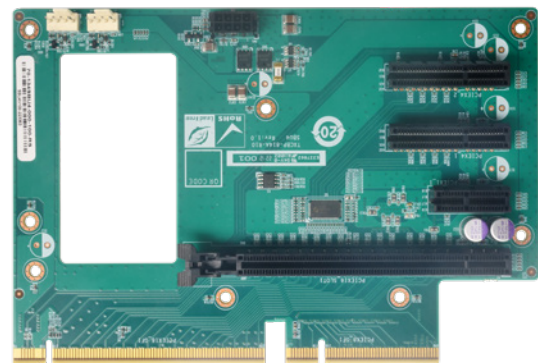
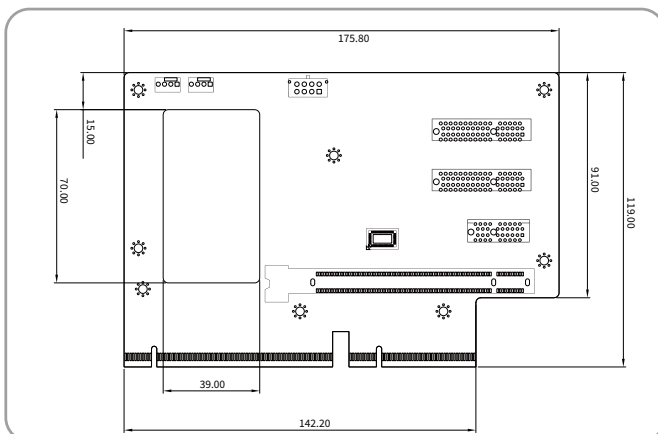
# TXCBP-XM81-G1-PW-R10

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 Connector
- Compactible chassis: TXC-XM81-G1-R10
- Support extended power supply board

## Dimensions (Unit: mm)



## Ordering Information

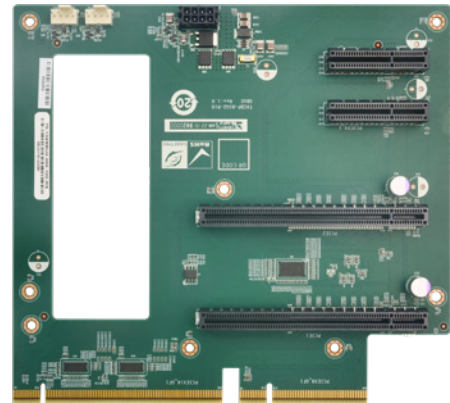
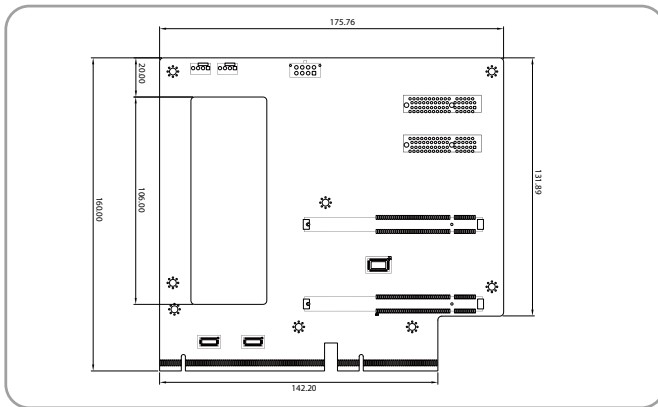
Model	Description
TXCBP-XM81-G1-PW-R10	TANK-XM81 series expansion backplane module, 4 Slot, 1xPCIe*16&1 x PCIe*4 W External power supply
TXC-XM81-G1-R10	TANK-XM81 series one GPU expansion chassis
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output Power Module

# TXCBP-XM81-G2-PW-R10 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 connector
- Compactible chassis: TXC-XM81-G2-R10
- Support extended power supply board

## Dimensions (Unit: mm)



## Ordering Information

Model	Description
TXCBP-XM81-4A-R10	TANK-XM81 series expansion backplane module, 4 Slot, 1xPCIe*16 & 2xPCIe*4 & 1xPCIe*1
TXC-XM81-G2-R10	TANK-XM81 series dual GPU expansion chassis
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output power module

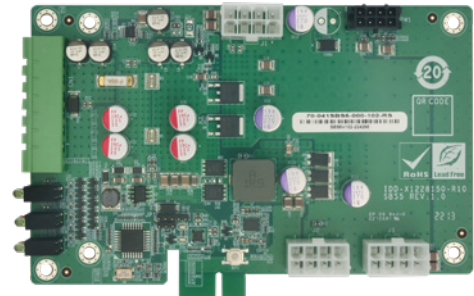
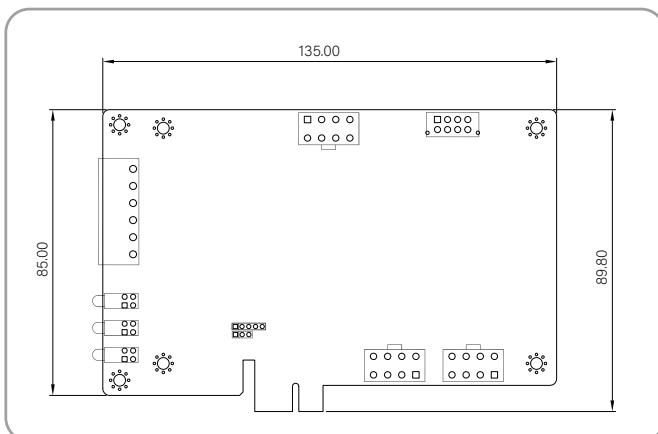
# IDD-X1228150-R10

## 150W/600W Power Module

## Features

- 150W (16-28V) /600W (12V ONLY) output
- 12V&16-28V input
- Up to 95% efficiency
- RoHS compliant

## Dimensions (Unit: mm)



## Specifications

- Input: 12V & 16-28V DC
- Output(max): 12V@50A (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

## Ordering Information

Model	Description
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output power module
32110-000200-100-RS	Wire cable; Video cable; Video power cable; 3,300mm



# SF-TANK-XM81-R10

## Expansion Fan Module

The expansion fan module conforming to the design of TANK-X81 series products can be directly installed on the surface of heat dissipation aluminum extrusion. The surface of the mechanism is air-cooled and dissipated by fans.

### Specifications

Model Name	SF-TANK-XM81-R10
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-R10

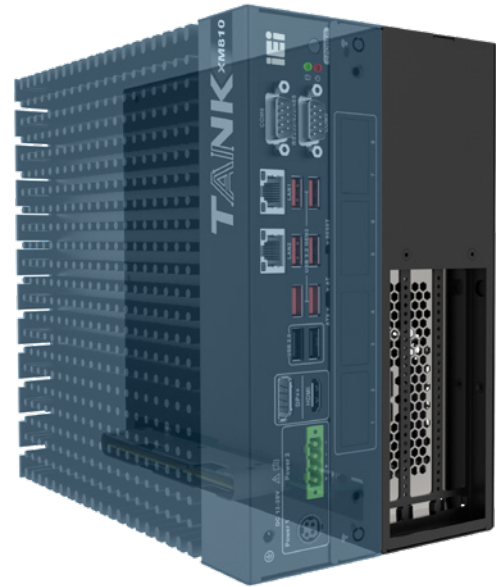
## 3-slot Tank-XM81 series Chassis

### Features

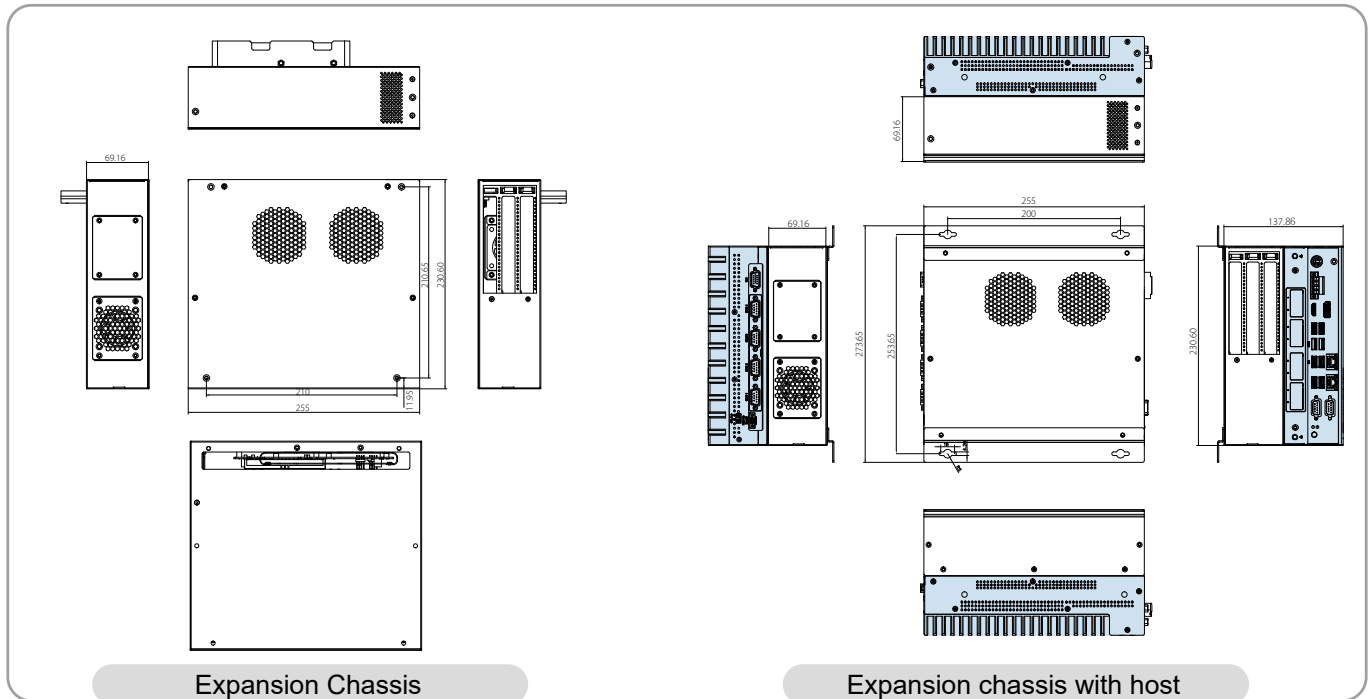
- 3-slot half-size chassis
- One 5cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power consumption

### Specifications

Model Name	TXC-XM81-3S-R10
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, 1xPCIe*16 & 1xPCIe*4
TXCBP-XM81-2B-R10	TANK-XM81 series expansion backplane module, 2 slot, 2xPCIe*8
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 fixing screws

NOTE: 41009-0288C2-00-HF\*, 31100-000499-RS\*, 44215-050101-RS\* Need to be used together

# TXC-XM81-4S-R10

4-slot TANK-XM81 series Chassis

## Features

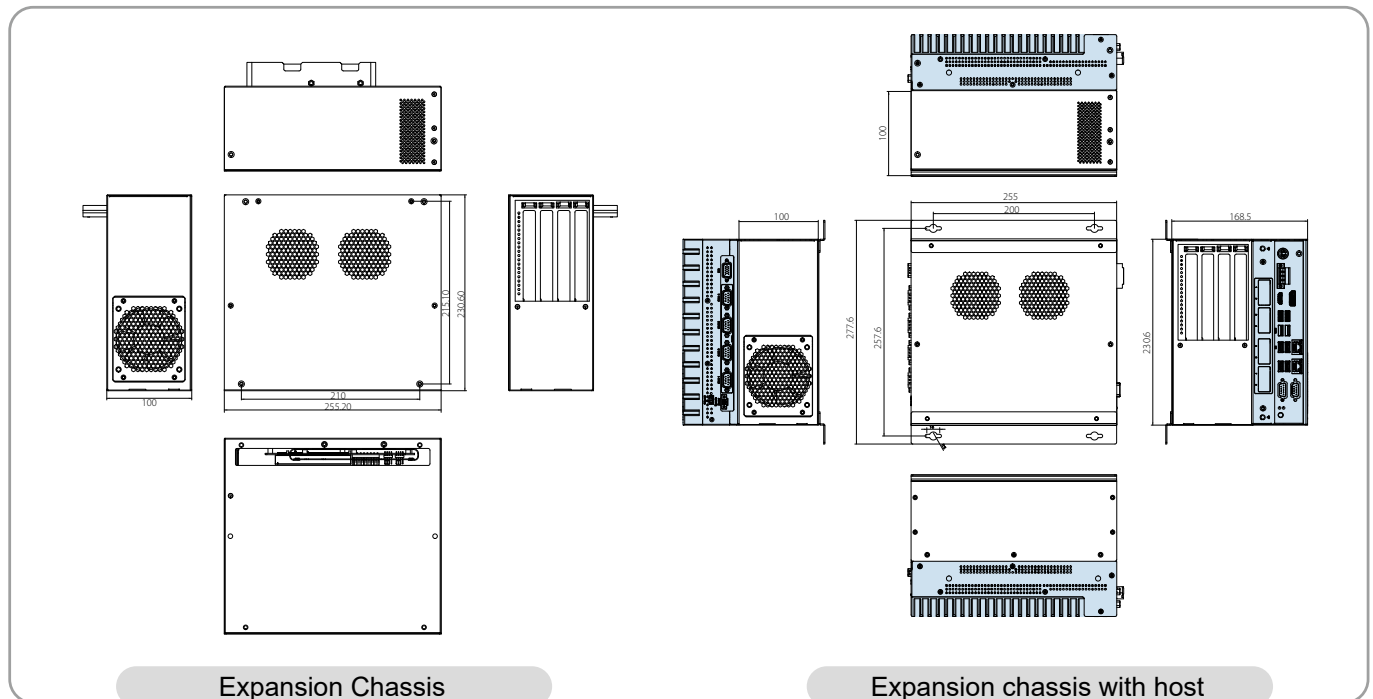
- Flexible expansion via half size PCIe/PCI slot
- TANK-XM81 series compatible
- Optional for thermal optimization
- Maximum 75W for add-on card power consumption
- Support 600W power consumption GPU card by IEI expansion power board

## Specifications

Model Name	TXC-XM81-4S-R10
Construction	Heavy duty metal
Expansion Slots	4 slots
Cooling Fans	1 x 8cm(4500rpm,44db)
Color	Black
Max length of add 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, 1xPCIe*16 & 2xPCIe*4 & 1xPCIe*1
TXCBP-XM81-4B-R10	TANK-XM81 series expansion backplane module, 4 slot, 2xPCIe*8 & 2xPCIe*4 W External power supply
TXCBP-XM81-4C-R10	Tank 81 Series Expansion backplane module, 4 slot, 1xPCIe*16 & 2xPCI & 1xPCIe*4
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output power module

# TXC-XM81-G1-R10

4-slot TANK-XM81 One GPU Chassis

## Features

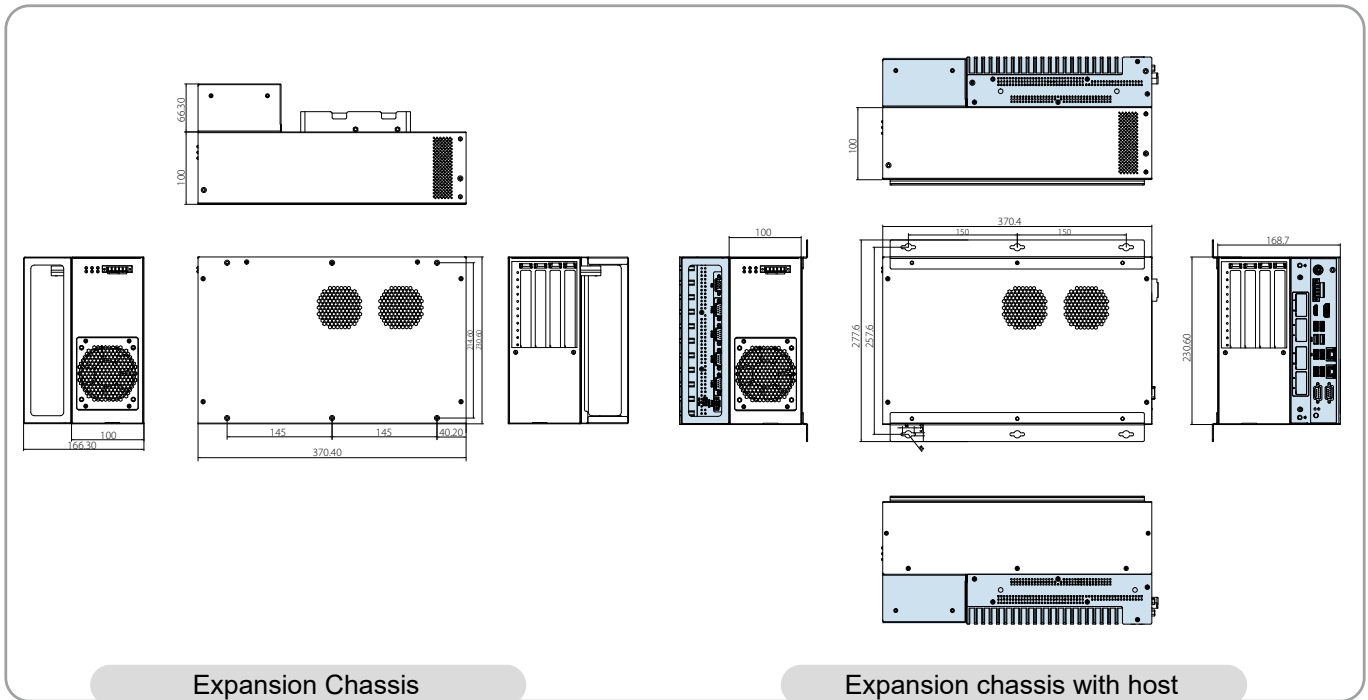
- 4-slot Full-size Chassis
- One 8cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power consumption
- Support 600W power consumption GPU card by IEI expansion power board

## Specifications

<b>Model Name</b>	<b>TXC-XM81-G1-R10</b>
Construction	Heavy duty metal
Expansion Slots	4 slots
Cooling Fans	1 x 8cm (3800rpm,40db)
Color	Black
Max length of add 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 one GPU expansion chassis
TXCBP-XM81-G1-PW-R10	TANK-XM81 series expansion backplane module, 4 Slot, 1xPCIe*16&1xPCIe*4 W External power supply
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output power module

\*By order production, MOQ: 50

# TXC-XM81-G2-R10

6-slot Tank-XM81 Dual GPU Chassis

## Features

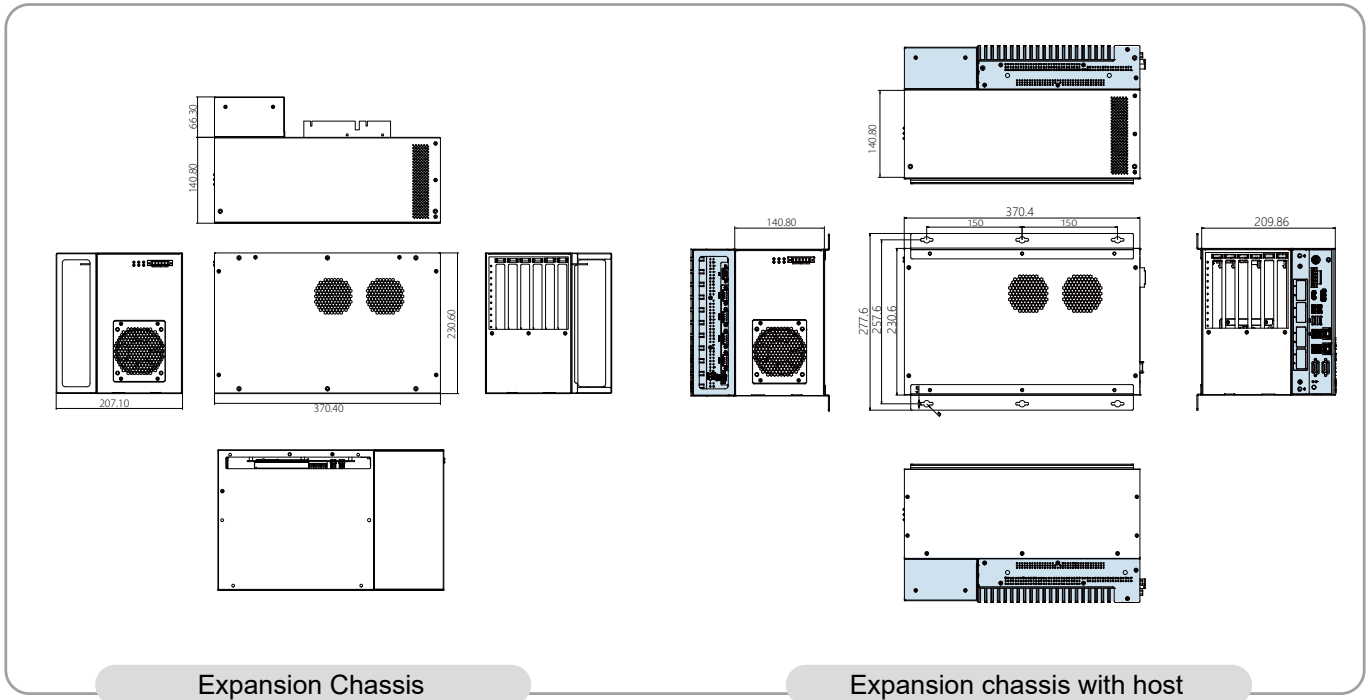
- 6-slot Full-size Chassis
- One 8cm cooling fan
- TANK-XM81 series compatible
- Maximum 75W for add-on card power consumption
- Support 600W power consumption GPU card by IEI expansion power board

## Specifications

<b>Model Name</b>	<b>TXC-XM81-G2-R10</b>
Construction	Heavy duty metal
Expansion Slots	6 slots
Cooling Fans	1 x 8cm (3800rpm,40db)
Color	Black
Max length of add 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 Solt, 2xPCIe*8 & 2xPCIe*4 W External power supply
IDD-X1228150-R10	150W@16~28V or 600W@12V DC input 12V output power module

\*By order production, MOQ: 50