cincoze™

GEB-3301

GPU Expansion Box

Key Benefits

- **GPU Expansion** with one PCIe x16 slot supporting full-length GPU cards up to 300 W
- **Additional Expansion** through one PCIe x4 slot for add-on cards up to 25 W
- **Advanced Cooling** with intelligent thermal management for high-performance GPU cards
- **Secure GPU Mounting** with a patented adjustable card retainer for high-vibration environments
- **Rugged Reliability** with MIL-STD-810H shock and vibration testing when integrated with GP Series systems



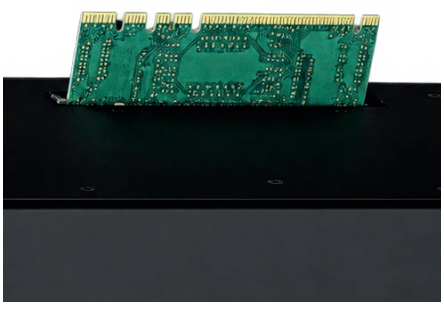
Overview

The GEB-3301 is a rugged GPU expansion box designed to extend the graphics processing capabilities of compatible Cincoze GP Series computers. Featuring a PCIe x16 slot for full-length GPU cards and an additional PCIe x4 slot, it supports flexible expansion for demanding industrial applications. Intelligent cooling and a patented adjustable GPU card retainer help maintain thermal performance and mechanical stability, while MIL-STD-810H shock and vibration testing supports integration into challenging operating environments.

Certifications

EN 50121-3-2 MIL-STD-810H EN 62368-1

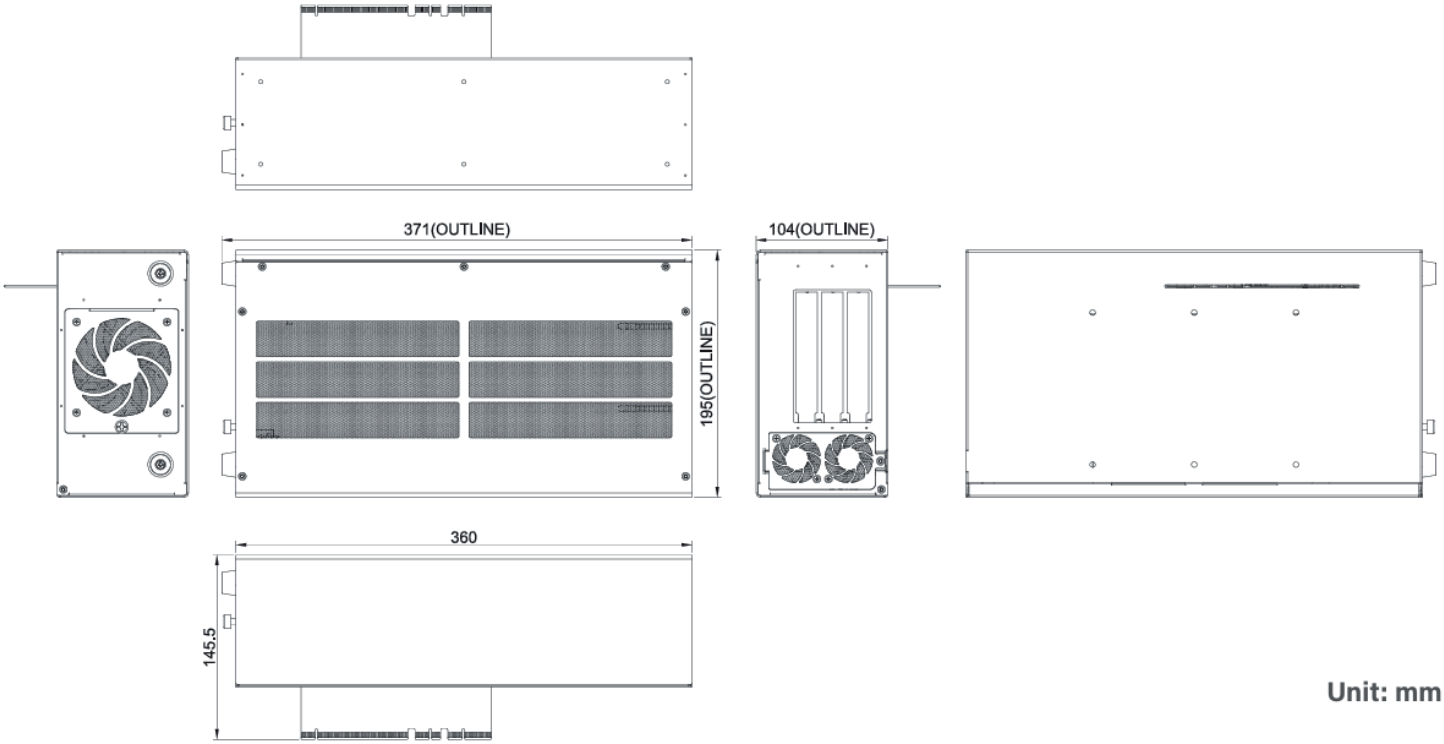




Specifications

Expansion Slot	▪ 1 x PCIe x 16 Slot (PCIe x 16 Signal) for GPU Card ▪ 1 x PCIe x 4 Slot (Max. 25W) * Single-GPU configuration: 300 W @ 24 VDC
GPU Card Dimension	▪ Card Length : 328mm ▪ Card Height : 64mm (Standard Triple-Deck) ▪ Card Width : 138mm
Internal USB	▪ 1 x USB 2.0, Type A
Internal Power Connector	▪ 2 x 8-Pin Connector for GPU Card
Weight Information	▪ 3.2 kg
Dimension (W x D x H)	▪ 104 x 195 x 360 mm
MTBF	▪ 2,713,254 hr
Shock	▪ MIL-STD-810H * Test with system (w/ GP series)
Vibration	▪ MIL-STD-810H * Test with system (w/ GP series)
EMC	▪ CE, UKCA, FCC, ICES-003 Class A * Test with system (w/ GP series)
EMI	▪ CISPR 32 Conducted & Radiated: Class A ▪ EN/BS EN 50121-3-2 Conducted & Radiated: Class A ▪ EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A ▪ EN/BS EN 61000-3-3 Voltage fluctuations & flicker ▪ FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS	▪ EN/IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV ▪ EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 20 V/m ▪ EN/IEC 61000-4-4 EFT: AC Power: 2 kV; Signal: 2 kV ▪ EN/IEC 61000-4-5 Surges: AC Power: 2 kV ▪ EN/IEC 61000-4-6 CS: 10V ▪ EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m ▪ EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz
Safety	▪ UL, cUL, CB, IEC, EN62368-1
Railway	▪ EMC: EN 50155: 2021 Clause 4.4.6, 13.4.9 - EN 50121-1 : 2017 - EN 50121-3-2: 2016 + A1: 2019 * Test with system (w/ GP series)
In-Vehicle	▪ E-mark * Test with system (w/ GP series)

Dimensions



Unit: mm

Ordering Information

Available Models

GEB-3301-R10 	GPU Expansion Box with 1 x PCIe x 16 and 1 x PCIe x 4 Slots

Package Checklist

	Wall Mount Bracket
	2 x 8 Pin to 6+2 Pin GPU Power Cable
	2 x Screw Pack
	1 x GPU Card Retainer Screw Pack
	1 x Rubber Foot Kit
	2 x Sponge

Compatible GPU List

Model	Architecture	Dimesion (D x W mm)	Slot	Power Consumption
RTX PRO 6000 Blackwell Max-Q Workstation Edition	Blackwell	266.7 x 111.8	dual slot	300W
RTX PRO 5000 Blackwell	Blackwell	266.7 x 111.8	dual slot	300W
RTX PRO 4500 Blackwell	Blackwell	241.3 x 111.8	dual slot	200W
RTX PRO 4000 Blackwell	Blackwell	266.7 x 111.8	single slot	140W
RTX PRO 4000 SFF Blackwell	Blackwell	167.6 x 68.6	dual slot	70W
RTX PRO 2000 Blackwell	Blackwell	167.6 x 68.6	dual slot	70W
RTX 6000	Ada Lovelace	266.7 x 111.8	dual slot	300W
RTX 5000	Ada Lovelace	266.7 x 111.8	dual slot	250W
RTX 4500	Ada Lovelace	266.7 x 111.8	dual slot	210W
A800 40GB Active	Ampere	266.7 x 111.8	single slot	130W
RTX A6000	Ampere	266.7 x 111.8	dual slot	70W
RTX A5500	Ampere	266.7 x 111.8	dual slot	230W
RTX A5000	Ampere	266.7 x 111.8	dual slot	230W
RTX A4500	Ampere	266.7 x 111.8	dual slot	200W
RTX A4000	Ampere	241.3 x 111.8	single slot	140W
RTX A2000 | RTX A2000 12GB	Ampere	167.6 x 68.6	dual slot	70W

**An optional GPU expansion box is required for GPU usage.

cincoze™

Delivering end-to-end, like no one else.
Bring us your challenge & experience the difference.

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