PEXI-G360 Suite

Rugged External GPU Retrofit Kit, Incl. Rugged External GPU Enclosure via PEXI interface for 360W GPUs, a 60cm PEXI 8i cable and a PCIe-to-PEXI Adapter



Key Features

PEXI-G360

- **Supports a selected NVIDIA SFF-Ready 360W GPU with the dedicated GPU bracket**
- **9V to 32V wide DC input with patent-pending power management**
- **MIL-STD-810H compliance with GPU installed**
- **Rugged, -25 to 60°C wide operating temperature**
- **Optional damping bracket/wall-mount and DIN-rail Mount**

PCIe-SAS441

- **PCIe-to-PEXI adapter card via PCIe Gen4x4 with onboard PCIe redriver**
- **Dedicated PEXI connector cover**

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Introduction

The PEXI-G360 Suite is a rugged, plug-and-play, 360W eGPU retrofit kit designed for effortless AI performance upgrades. It includes everything you need for a seamless integration: a rugged external GPU cassette (PEXI-G360), a PCIe-to-PEXI adapter (PCIe-SAS441), and a 60cm PEXI cable. It targets two primary applications: adding AI capabilities to existing algorithm-based vision computers, and space-constrained outdoor in-vehicle or AMR applications requiring a discrete system architecture.

PEXI is a Neousys proprietary protocol designed for external high-speed I/O devices, featuring several purposely engineered details for deployment. First, it incorporates fine-tuned onboard redrivers to guarantee signal integrity up to PCIe Gen4 x4 over a 60cm PEXI cable. Secondly, unlike some eGPUs that require an additional power button, PEXI integrates a remote power management sideband, ensuring the PEXI-G360 shares the identical power state as the host computer (e.g., standby or runtime). Finally, we designed specialized PEXI connector covers to enhance shock and vibration resistance and prevent unexpected cable disconnection.

The PEXI-G360 is engineered for challenging environmental conditions. It features an industrial-grade power design to support up to 360W GPU cards, such as the RTX Pro 5000, Pro 6000 MAX-Q, or similar high-power models. The PEXI-G360 also comes with a GPU retention bracket for select models and an optional damping bracket to ensure compliance with MIL-STD-810H standards. Furthermore, its rugged thermal design supports a -25°C to 60°C wide operating temperature range, while the 9V to 32V wide-range DC input makes it ideal for in-vehicle and on-robot deployments. Alternatively, for machine vision applications combining rule-based and AI-aided inspection, the PEXI-G360 Suite serves as a flexible option that helps customers standardize on a single computer model, adding the PEXI-G360 only for production lines requiring additional AI performance. It also offers a DIN-rail mounting option for easy cabinet installation.

The PEXI-G360 Suite embodies a bold new concept: treating AI acceleration as a flexible, modular option rather than a fixed attribute of the host computer. By combining 360W GPU support, PCIe Gen4 x4 bandwidth, wide operating temperature support, and robust shock and vibration resistance, it upgrades existing industrial computers into high-performance physical AI computers.

Specifications

I/O Interface	
External PCIe Connector	1x PCIe Gen4x4 via PCIe-SAS441 or PEXI interface
Power Supply	
DC Input	1x 4-pin pluggable terminal block for 9 to 32V DC input[1]
Mechanical	
Dimension	76 mm (W) x 385 mm (D) x 170 mm (H)
Weight	2.0 kg
Mounting	Damping/wall-mount bracket(optional) or DIN-rail mount (optional)

Environmental	
Operating Temperature	-25°C ~ 60°C
Storage Temperature	-40°C ~ 85°C
Humidity	10% ~ 90%, non-condensing
Vibration	MIL-STD-810H, Method 514.8, Category 4
Shock	MIL-STD-810H, Method 516.8, Procedure I
EMC	CE/ FCC Class A, according to EN 55032 & EN 55035

[1] *The maximum input current for each pin is 40A*

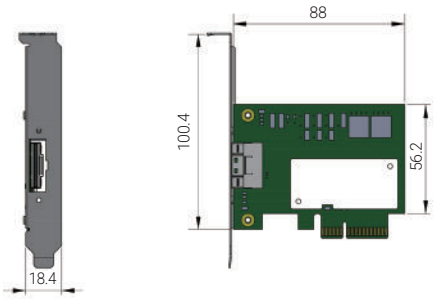
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Dimensions

Unit : mm



PEXI-G360



PCIe-SAS441

Ordering Information

Model No.	Product Description
PEXI-G360 Suite	Rugged External GPU Enclosure for 360W NVIDIA SFF-Ready GPUs with PCIe-SAS441 and a 60cm PEXI 8i cable
PEXI-G360	Rugged External GPU Enclosure for 360W NVIDIA SFF-Ready GPUs

Optional Accessories

PA-480W-DIN	480W AC-DC power adapter DIN-rail mount, 24V 20A, 90~264VAC/127~370VDC, terminal block, -20°C to 70°C
Damping bracket ASS'Y #06	Damping/wall-mount bracket assembly for PEXI-G360
DIN-MOUNT ASSY #08	DIN-Rail mount bracket assembly for PEXI-G360

All specifications and photos are subject to change without prior notice