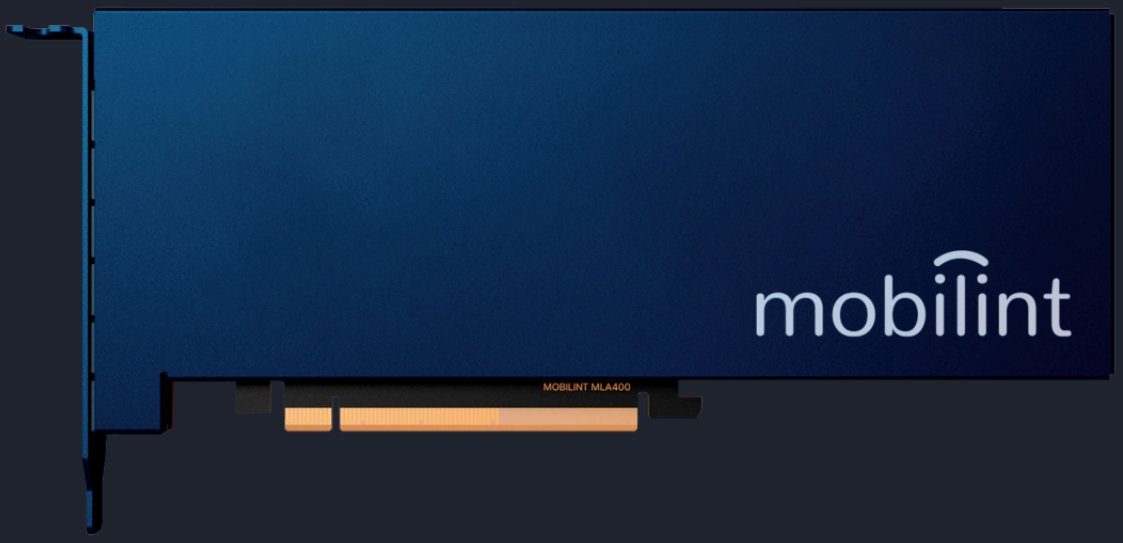
EN

MLA400 PCIe Card Passive Slim

Product User Guide



To ensure your safety and convenience,
please read the user guide.

mobilint

TABLE OF CONTENTS

1 INTRODUCTION

User Guide Information 03

Product Overview 04

Detailed Specifications 05

2 HARDWARE & SETUP

Component Names 06

Installation Instructions 07

Software 08

3 SAFETY INFORMATION

Installation Precautions 09

Operating Precautions 09

4 CERTIFICATION

Certification Status 10

User Guide Information

This user guide explains the installation and operation of the Mobilint MLA400 PCIe Card Passive Slim. If you cannot find the necessary information in this guide, please contact Mobilint Technical Support.

User Forum	discuss.mobilint.com
Support Channel	tech-support@mobilint.com

Product Overview

A high-performance, low-power AI accelerator for edge servers and industrial computing. MLA400 PCIe Card Passive Slim is a PCIe AI accelerator built on a quad-ARIES architecture, delivering exceptional AI processing power. It runs AI inference fast and efficiently, and drops straight into industrial PCs and server environments.

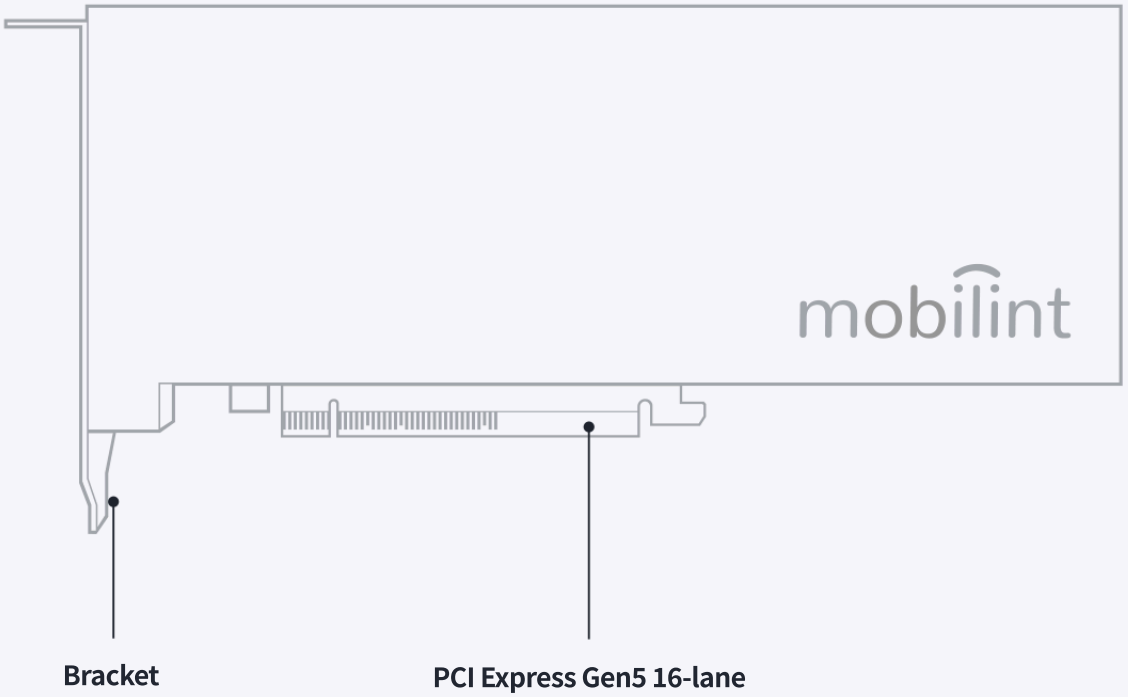
Designed as a high-efficiency alternative to GPU-based systems, it's optimized for a wide range of industrial and edge AI workloads.

Detailed Specifications

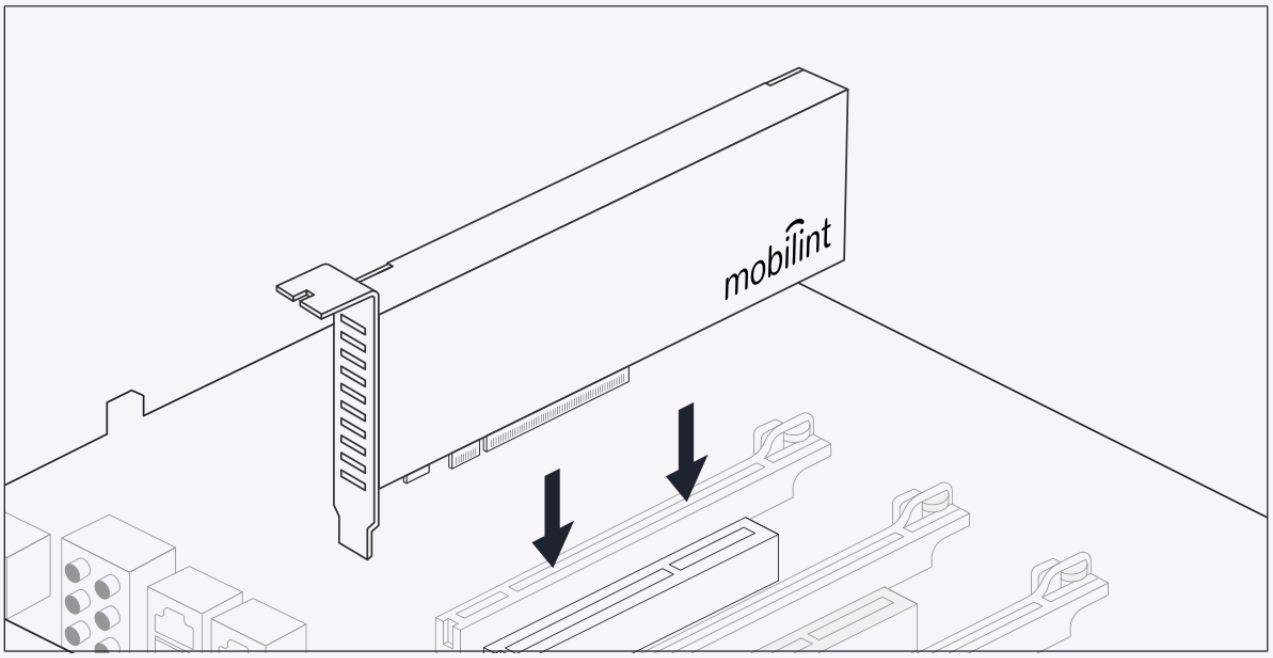
Product Name	AI Accelerator PCIe Card
Model Name	MLA400 PCIe Card Passive Slim
NPU	Quad-ARIES
Performance	640 TOPS*
NPU Frequency	1.25 GHz
NPU Cores	32
Memory Type	LPDDR4X
Memory Capacity	64 GB
Memory Bandwidth	Up to 266.8 GB/s
Flash Memory	32 MB
Host Interface	PCI Express Gen5 16-lane
UART	1 Port × 4
LED Indicators	Power × 3, Status × 4
Supported OS	Linux, Windows
Supported Frameworks	PyTorch, TensorFlow, TFLite, ONNX, Keras
TDP	135 W
Input Voltage	DC +12 V (Slot + AUX 8-pin)
Cooling System	Heatsink
Dimensions (mm)	268 (L) × 112 (W) × 19 (H)
Weight (g)	704

* TOPS based on INT4

Component Names



Installation Instructions



1 Turn off the power and unplug the power cord.

Please ensure that the system power cable is disconnected before installing or removing the product.

2 Open the chassis and locate the motherboard.

3 Insert the product into the PCIe slot until fully seated.

If a card is already installed, remove it. Align the product with the PCIe slot and press it down vertically and gently. Make sure it is firmly seated in the slot.

4 Locate the 8-pin AUX power connector on the upper right of the card, then connect the 8-pin PCIe power cable from your power supply.

5 Close the computer case and reconnect the power cord.

⚠ Disconnecting the product while it is running a task, such as AI model inference, may cause errors, data loss, or device malfunction. Disconnect the device only after all tasks have completely ended.

Mobilint Software

Mobilint SDK qb is provided through the official support channel, where guidance on how to use the software is also available. For inquiries, you can receive answers through the Mobilint technical support channel (discuss.mobilint.com).

Technical Inquiries	discuss.mobilint.com
	tech-support@mobilint.com

Installation Precautions

- The installation image above is for reference only. Actual installation may vary depending on the system environment.
- Before installing the product, discharge any static electricity from your body by touching the metal frame inside the powered-off system.
- Handle the product by its edges to avoid contact with circuitry or the PCIe connector.
- Disconnecting the product while it is running a task, such as AI model inference, may cause errors, data loss, or device malfunction. Disconnect the device only after all tasks have completely ended.
- Ensure that clothing or accessories do not come in contact with electronic components.

Operating Precautions

- Do not connect or disconnect the product while the system is powered on.
- Do not disassemble or modify the product without proper guidance. This may result in product damage, electric shock, or other unexpected hazards.
- Do not touch the product with wet hand(s) to prevent electric shock.
- Operating the product in environments with high humidity or insufficient ventilation may reduce its lifespan. Ensure that water or other liquids do not come in contact with the product, as this may cause serious damage.
- Keep the product in its storage packaging box when not in use.

Certification Status

	KC (South Korea) Verifies compliance with electromagnetic compatibility (EMC) and product standards.
	CE (European Union) Verifies compliance with EU safety, health, environmental, and consumer protection standards.
	FCC (United States) Verifies compliance with electromagnetic compatibility (EMC) and product standards.
RoHS	**RoHS (European Union and selected countries)** Restricts the use of hazardous substances (e.g., lead, mercury) in electrical and electronic equipment.

For more information on certifications and standards,
please contact Mobilint Technical Support: tech-support@mobilint.com

Mobilint Technical Inquiries

- discuss.mobilint.com
- tech-support@mobilint.com

Mobilint Website

- www.mobilint.com

Mobilint Locations

- Korea (HQ): 3F, (Narakium Yeoksam B Building)35, Seolleung-ro 93-gil, Gangnam-gu, Seoul 06151, Republic of Korea
- US Office: Suite 206, 2F, 2665 North First St, San Jose, CA 95134, United States

This user guide is subject to change without prior notice due to product improvements or version updates.

© 2026 Mobilint, Inc. All rights reserved.

mobilint