

# POC-960GC

Compact GPU Computer supporting NVIDIA® 70W GPU and AMD® Ryzen™ 8640U processor

## Key Features

- AMD® Ryzen™ PRO 8640U processor 15W-30W TDP with 6C/ 12T
- Supports NVIDIA® low-profile GPU card up to 70W
- Up to 32 GB ECC/ non-ECC DDR5 5600 SDRAM
- 4x GbE with optional POE+, 1x 2.5GbE and 4x USB3.2 Gen 2
- 1x M.2 2280 NVMe for storage and 2x Mini-PCIe for wireless connection
- -25°C to 60°C temperature operation
- 12-35V DC input with remote control



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## Introduction

The POC-960GC is the first ultra-compact x86-based GPU computer designed to bring powerful AI inference capabilities to space-constrained industrial environments. Powered by the AMD® Ryzen™ PRO 8640U processor, the system supports an NVIDIA® low-profile GPU up to 70W, enabling efficient GPU acceleration in compact edge deployments.

Featuring the AMD® Ryzen™ PRO 8640U processor with integrated AI acceleration, the POC-960GC provides hybrid computing capability for real-time inference workloads. With support for DDR5-5600 memory and M.2 NVMe storage, the system ensures fast data access and improved responsiveness for demanding applications. It also offers rich connectivity, including four Gigabit Ethernet ports with optional PoE+ and four USB 3.2 Gen 2 ports with screw-lock for camera connectivity, along with one 2.5GbE port for high-speed data transmission, and dual mini-PCIe slots for wireless or modular expansion.

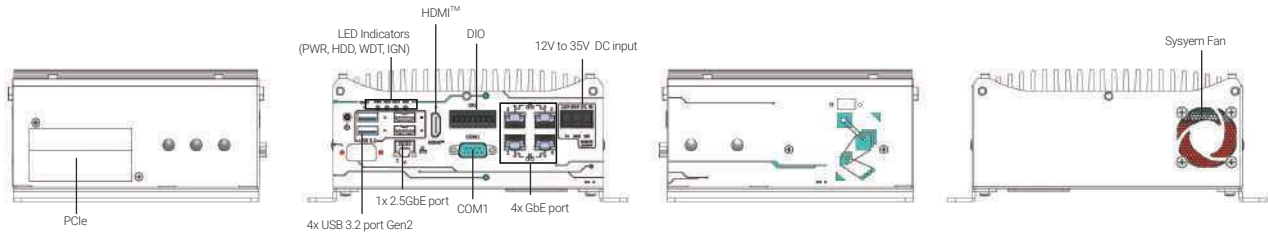
With support for an NVIDIA® low-profile GPU up to 70W, the POC-960GC delivers powerful computing capability by combining CPU and GPU resources. The CPU efficiently handles data processing tasks such as sensor data processing, device coordination, and system control, while the GPU accelerates parallel workloads including image processing, deep learning inference, and AI inference. This balanced architecture enables high-performance computing in a compact form factor, making the POC-960GC an ideal platform for applications such as robotics, machine vision, smart city infrastructure, and interactive edge AI systems.

## Specifications

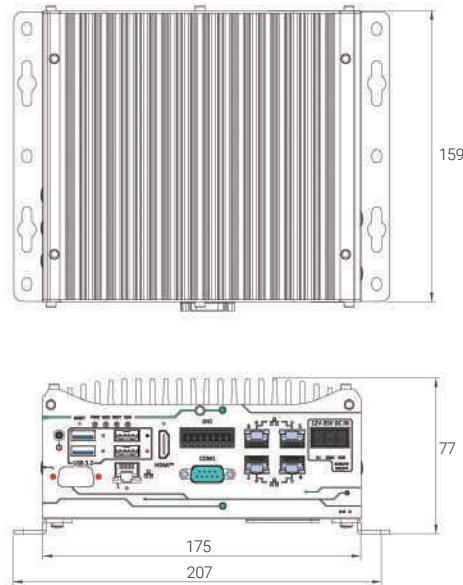
System Core	
Processor	AMD® Ryzen™ PRO 8640U CPU (6C/ 12T, 3.5/ 4.9 GHz, 15W-30W TDP)
Graphics	AMD® Radeon RDNA3 Graphics (16 TOPs NPU with Ryzen™ AI, 31 TOPs for total SoC)
Memory	Up to 32 GB DDR5-5600 SDRAM (one SODIMM socket)
TPM	Supports dTPM 2.0
I/O Interface	
Ethernet	1x 2.5Gb Ethernet port by Intel® I226-V with WOL (port #1) 4x Gb Ethernet ports by Intel® I350-AM4 (port #2-5)
PoE+	Optional IEEE 802.3at PoE+ for port #2- 5, 100W total power budget
Native Video Port	1x HDMI™ 2.0b, Supporting 3840 x 2160 60Hz
Serial Port	1x Software-programmable RS-232/422/485 ports (COM1)
USB	4x USB 3.2 ports Gen 2
Isolated DIO	4-CH isolated DI and 4-CH isolated DO
Storage Interface	
M.2	1x M.2 2280 M key socket (PCIe Gen3 x4) for NVMe SSD
Expansion Bus	
PCI Express	1x Low-profile PCIe x16 slot @ Gen4, 8-lanes PCIe signals for installing an NVIDIA® graphics card up to 70W TDP
Mini-PCIe	2x full-size mini PCI Express socket with 1x internal micro SIM socket

Power Supply	
DC Input	1x 3-pin pluggable terminal block for 12 to 35V DC input with remote control or optional ignition power control
Mechanical	
Dimension	175 mm (W) x 159 mm (D) x 77 mm (H)
Weight	1.8 kg
Mounting	Wall-mount (Standard)
Environmental	
Operating Temperature	-25°C ~ 60°C (15W TDP, without FAN) -25°C ~ 45°C (30W TDP, without FAN) -25°C ~ 60°C (30W TDP, with FAN)
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

## Appearance



## Dimensions



Unit : mm

## Ordering Information

Model No.	Product Description
<b>POC-960GC</b>	Compact GPU Computer supporting 70W GPU and AMD® Ryzen™ 8640U processor
<b>POC-960GC-PoE</b>	Compact GPU Computer supporting 70W GPU and AMD® Ryzen™ 8640U processor, with IEEE 802.3at PoE+

## Optional Accessories

<b>PA-160W-OW</b>	160W AC/DC power adapter 20W/ 8A; 18AWGx4C/ 120cm, cord end terminals for terminal block, operating temperature : -30°C to 70 °C
<b>PA-280W-ET2</b>	280W AC/DC power adapter 24V/ 11.67A; 16AWG/ 100cm; cord end terminals for terminal block, operating temperature : -30°C to 70°C.
<b>AccsyBx-Cardholder-960GC-RTX Pro 2000</b>	POC-960GC GPU Bracket kit for RTX PRO 2000 Blackwell
<b>AccsyBx-334LP-bkt-POC-960GC</b>	POC-960GC PCIe bracket kit for PCIe-334LP
<b>AccsyBx-FAN-POC-960GC</b>	Fan assembly for POC-960GC series, 92x92x25 mm