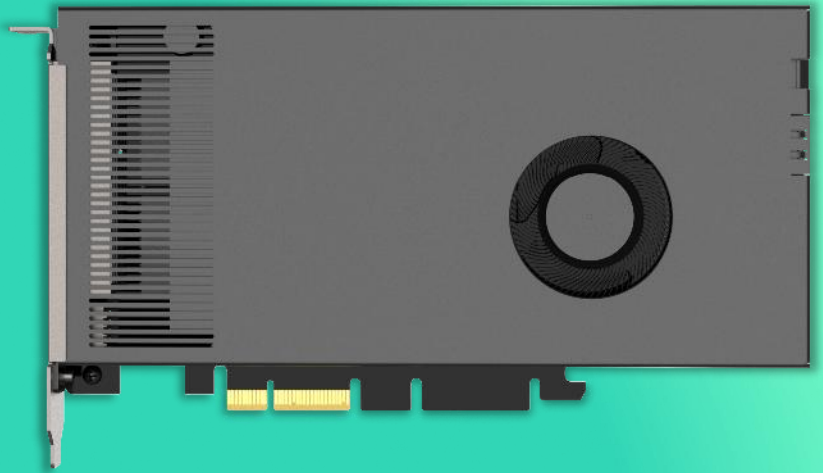


EVVR



NEXT-GEN INDUSTRIAL VISION

AI Frame Grabber-4PE

A revolutionary industrial-grade, AI-integrated frame grabber that unifies image acquisition and AI inspection in a single card for next-generation computer vision applications.



AI Frame Grabber-4PE

Key Features

High-Performance

4-Channel acquisition with 4x PoE+ 2.5 GbE ports (50W budget).

Enterprise Security

Hardware-level anti-copy, anti-tampering, and data encryption.

AI Integrated

Native EVVR OS optimization for real-time AI inspection on-card.

Versatile Connectivity

Isolated RS-485 and RS-232.
Compatible with Windows and Linux.

Introduction

Deeply optimized for EVVR OS automation platform, it unifies 4-channel image capture and on-board AI acceleration to deliver end-to-end image acquisition and AI inference. It eliminates reliance on high-cost GPUs, reduces host CPU load, and enables low-latency, real-time visual inspection—making it the ideal upgrade for legacy machine vision systems to leverage deep learning-based image processing.

Featuring four 2.5GbE PoE+ ports with a 50W total power budget, it efficiently connects and powers industrial GigE cameras. As a standard single-slot half-length PCIe form factor, it fits into a single PCIe x4 slot for easy integration into any existing computer system.

With an operating temperature range of -20°C to 65°C , its robust industrial design delivers a stable, reliable and high-performance solution for AI-powered industrial vision and deep learning inspection.

Technical Specifications

AI Frame Grabber-4PE	
Product Model	4PE
Memory	8GB
eMMC	64GB
Bus Interface	PCIe x4
PoE	4 × IEEE 802.3at PoE+, Max 25.5W per port, Total 50W output for 4 ports
Ethernet	4 × 2.5G Ethernet ports
I/O Interface Type	1 × CAN Interface, 1 × Gigabit Ethernet 1 × USB 2.0 Port, 1 × USB Type-C Port 1 × DisplayPort
Serial Port	1 × RS-232 port, 1 × Isolated RS-485 port
Supported Camera Type	GigE Vision Industrial Cameras
Supported Camera Quantity	4 at most
Functional Module	EVVR OS Platform (with Deep Learning)
Power Supply	12V DC
Dimensions	227.7 mm (W) × 111 mm (H)
Temperature	Operating Temperature: -20 ° C ~ 65 ° C Storage Temperature: -20 ° C ~ 65 ° C
Humidity	10% - 90%, Non-condensing
Operating System	Windows, Linux

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✉ sales@evvr.io 🌐 <https://evvr.io/>

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