



Vision AI Xcelerix

Industrial Vision AI Accelerator

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The Vision AI Xcelerix is an industrial-grade external MXM GPU expansion system designed to add scalable GPU performance to industrial computers via USB4. Engineered for cabinet installation and powered by a 24V supply, it integrates NVIDIA® MXM GPUs to deliver high-performance acceleration for demanding image processing and AI applications. Unlike consumer eGPU solutions, the Xcelerix is built for long-term availability, industrial environments, and continuous operation. Its modular GPU architecture allows performance upgrades without replacing the host system, making it ideal for evolving processing requirements in machine vision and automation.

Key Features

- External NVIDIA® MXM GPU integration
- USB4 high-speed host connection
- 24V DC industrial power supply
- Cabinet-ready industrial housing
- Scalable GPU performance levels
- Designed for long-term availability
- Optimized for AI and image processing workloads



Computing / Storage

System-On-Module	Nvidia RTX PRO 500 Blackwell Embedded GPU	Nvidia RTX PRO 2000 Blackwell Embedded GPU	Nvidia RTX PRO 4000 Blackwell Embedded GPU	Nvidia RTX PRO 5000 Blackwell Embedded GPU
Graphics Clock (MHz)	Base = 2160 / Boost = 2565	Base = 1522 / Boost = 2070	Base = 1545 / Boost = 219	Base = 1402 / Boost = 1935
NVIDIA CUDA Cores	1792	3328	7680	10496
Tensor Cores	56	104	240	320
RT Cores	14	26	60	80
AI Performance	9.19 FP32 TFLOPS Estimated 160 INT8 TOPS	13.78 FP32 TFLOPS Estimated 300 INT8 TOPS	33.75 FP32 TFLOPS Estimated 610 INT8 TOPS	40.62 FP32 TFLOPS Estimated 910 INT8 TOPS
Memory	6 GB GDDR7 288 GB/sec	8GB GDDR7 384 GB/sec	16GB GDDR7 896 GB/sec	24GB GDDR7 896 GB/sec

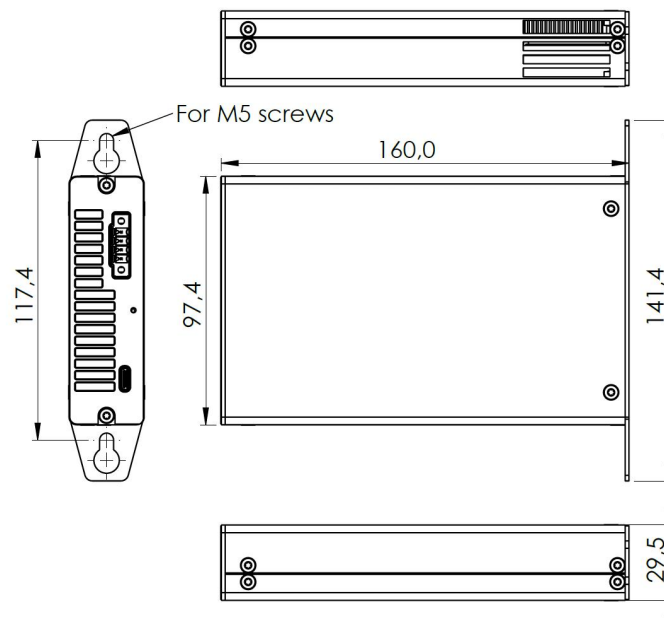
Interfaces

USB	USB4 40 GBit
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Mechanical / Electrical

Power Consumption	~ 67 W (RTX PRO 500, RTX PRO 2000) ~ 125 W (RTX PRO 4000, RTX PRO 5000)
Power Supply	22 VDC - 26 VDC
Power Supply Current Rating (peak current)	~ 2.8 A, 24V (RTX PRO 500, RTX PRO 2000) ~ 5.2 A, 24V (RTX PRO 4000, RTX PRO 5000)
Certification	IP20, CE
Temperature Range	0 ~ +55
Dimension W x H x D	29.5 mm x 97.4 mm x 160 mm
Weight	tbd
Mounting Plate W x H	29.5 mm x 141.4 mm
Mounting Support	2 x M5

Dimensional Drawing



The smartest embedded vision components

For more than 30 years, IMAGO has been supplying machine vision technology to machine builders to improve product quality, make processes smoother, avoid production errors, reduce manufacturing costs and make systems more efficient.



What we do

With the focus on what counts for our customers, we develop hardware components for industrial image processing. Be it in factory automation, the printing industry, for the food and beverage industry, pharmaceutical or logistics industry. IMAGO supplies vision systems, smart cameras, vision sensors and the appropriate software for the optimized use of our products. We pay special attention to miniaturization, high frame rates, increasing computing power and environmentally friendly power consumption. These characteristics already distinguish our products today.

And we are proud of them.