EOS-iX000-P Series

High-Performance AI GigE Vision Systems for the Edge with NVIDIA® Quadro® GPU

Features

- Pre-installed AI development component reduces testing and integration efforts thus accelerating time-to-market
- High product reliability guaranteed by well-validated power consumption, thermal design, and compatibility
- Optimized hardware design and performance tuning for AI vision applications
- Widely supports the NVIDIA GPU portfolio to satisfy various deep-learning applications



EOS-iXM43H-P1000



EOS-iXM43H-P4000



EOS-iXM43H-P2200



EOS-iXM43H-P5000

Introduction

The ADLINK AI Plug-and-Play (PnP) Solution is a set of ADLINK AI edge hardware and data connectivity platforms that help our partners build and deploy AI solutions faster and simpler. With ADLINK Data River™ enabled at AI edge platforms, devices, AI inferences, and data integrations, the AI PnP Solution offers a cross-platform, flexible, scalable solution that delivers business value.

ADLINK AI Plug-and-Play (PnP) EOS-iX000 Series is designed for deep-learning inference AI GigE Vision Systems. The pre-installed AI development component reduces testing and integration time, saves personnel costs, and speeds up your time to market.

EOS-iX000 Series passed an extreme validation process to provide high reliability in power consumption, thermal control, and compatibility; therefore, there is no need to worry about the integration of hardware and software. The high-performance EOS-iX000 Series supports up to 2560 CUDA cores and provides 16GB GPU memory, thus being ideal for high-speed detection and classification applications with deep learning.

ADLINK provides optimized imaging hardware/firmware/software performance tuning based on 20-years' expert experience in machine vision, including image data transfer performance tuning between CPU to GPU collaboration, to find the best configuration and provide best service.

Software Support

- Windows® 10 / Linux Ubuntu 18.04
- CUDA
- TensorRT
- TensorFlow
- Python
- cuDNN
- euresys
- EdgeSDK

Ordering Information

- **EOS-iXM43H-P1000**
  4-ch GigE Vision System with 6th Gen Intel® Core™ i7-6700 processor, NVIDIA® Quadro™ P1000, 4GB GPU memory, 16GB DDR4, and 512GB SSD
- **EOS-iXM43H-P2200**
  4-ch GigE Vision System with 6th Gen Intel® Core™ i7-6700 processor, NVIDIA® Quadro™ P2200, 5GB GPU memory, 16GB DDR4, and 512GB SSD
- **EOS-iXM43H-P4000**
  4-ch GigE Vision System with 6th Gen Intel® Core™ i7-6700 processor, NVIDIA® Quadro™ P4000, 8GB GPU memory, 16GB DDR4, and 512GB SSD
- **EOS-iXM43H-P5000**
  4-ch GigE Vision System with 6th Gen Intel® Core™ i7-6700 processor, NVIDIA® Quadro™ P5000, 16GB GPU memory, 16GB DDR4, and 512GB SSD

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Specifications

Model Name	EOS-iXM43H-P1000	EOS-iXM43H-P2200	EOS-iXM43H-P4000	EOS-iXM43H-P5000
Camera Interface	4-ch Gigabit PoE IEEE 802.3at compliant, total max. POE output 61W			
CPU	Intel® Core™ i7-6700, 3.4 GHz, 8M Cache, 14nm, 65W TDP, LGA1151 (4C/8T)			
Chipset	Intel® H110 Express Chipset			
System Memory	Two 288 PIN DDR4 Sockets (vertical type) 16GB DDR4 2400 MHz, dual channel up to 32 GB			
Storage	512G SSD			
GPU	NVIDIA® Quadro® P1000	NVIDIA® Quadro® P2200	NVIDIA® Quadro® P4000	NVIDIA® Quadro® P5000
GPU Memory	4GB	5GB	8GB	16GB
CUDA Cores	640	1280	1792	2560
Dimension	330 (W) x 406 (D) x 196 (H) mm			
DI/O	ADLINK series DI/O cards supported			
Display	1x VGA connector (rear) 1x HDMI connector (rear)			
Serial ATA	4x SATA 6.0 Gb/s connectors			
USB	4x USB 3.0 connectors (rear) 2x USB 2.0 connectors (rear) 2x USB 2.0 pin headers 2x USB 2.0 (vertical type A connector)			
Serial Ports	2x RS-232/422/485 with auto flow control connector (rear) 4x RS-232 pin headers			
Expansion Slots	1xPCIe x16 Gen3 1xPCIe x4 Gen2 5xPCI 2.2			
PS2 Combo Port	1x PS/2 keyboard & Mouse connector (rear)			
DIO	2x 20-pin/2.0mm GPIO pin header: 16 GPI and 16 GPO, one ground pin and one power pin (5V/12V/no power, jumper selected)			
Audio	1x Mic-in, 1x Line-out and 1x Line-in connectors (rear)			
Mini PCIe/M.2/USIM	N/A			
Operating Temperature	0 °C to 50°C			
Storage Temperature	-40 °C to 85 °C			
Relative Humidity	40° C @ 95% RH Non-condensing			
Certification (EMC)	CE & FCC Class B			
OS Support	Windows® 10 / Linux Ubuntu 18.04			
Embedded OS	Windows® 10			
Software	Pre-installed AI Software Suite			

Note: Specific supported Linux version information available upon request

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