

EOS-i6000-P Series

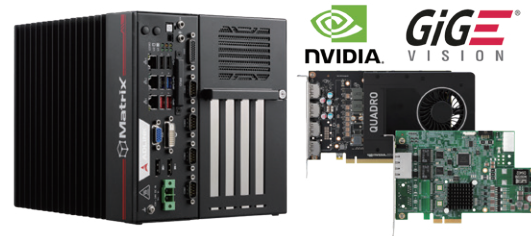
Compact AI GigE Vision Systems for the Edge with NVIDIA® Quadro® GPU

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-i614A-P1000



EOS-i614A-P2200

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-i6000-P 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-i6000-P 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 compact EOS-i6000-P Series supports up to 1280 CUDA cores and provides 5GB GPU memory, thus being ideal for object classification and detection application 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-i614A-P1000**
4-ch GigE Vision System with 9th Gen Intel® Core™ i7-9700E processor, NVIDIA® Quadro™ P1000, 16GB DDR4, and 512GB SSD
- **EOS-i614A-P2200**
4-ch GigE Vision System with 9th Gen Intel® Core™ i7-9700E processor, NVIDIA® Quadro™ P2200, 16GB DDR4, and 512GB SSD
- **AC/DC Adapter**
280W (P/N: 91-95263-0010)

Specifications

| Model Name | EOS-i614A-P1000 | EOS-i614A-P2200 |
|-----------------------|--|-----------------------|
| System Core | | |
| Camera Interface | 4-ch Gigabit PoE IEEE 802.3at compliant, total max. POE output 30W | |
| Processor | 9th Gen Intel® Core™ i7-9700E, 65W, 8 cores, base freq. 2.6G/ max. freq. 4.2G Hz | |
| Chipset | C246 | |
| Memory | 16GB DDR4 24000MHz, dual SODIMMs | |
| Storage | 512GB SSD | |
| GPU | NVIDIA® Quadro® P1000 | NVIDIA® Quadro® P2200 |
| GPU Memory | 4GB | 5GB |
| CUDA Cores | 640 | 1280 |
| I/O Interface | | |
| Display | 2x DP++, DVI-D, VGA | |
| Expansion Slots | PCIe x16 + 2 PCIe x4 + PCI | |
| Ethernet | 3x Intel GbE: 2x i211AT + i219 iAMT support | |
| Serial Ports | COM1/2: RS-232/422/485, COM3/4: RS-232 Optional: COM5/6 RS-232 (shared w/ DI/O) | |
| USB | 3x USB3.1 Gen2 + 3x USB2.0, 1x internal USB2.0 dongle | |
| Audio | Line-out, Mic-in (Optional: speaker-out) | |
| Mini PCIe | 1x Full size (USB 2.0 + PCIe) | |
| M.2 | 1x 2280/3042: USB3.1, SATA III and PCIe x2 | |
| USIM | 2 | |
| DI/O | 8-ch DI and 8-ch DO | |
| I ² C | 2 (3.3V/5V) | |
| TPM2.0 | Yes | |
| Storage Device | | |
| 2.5" SATA | 4x internal | |
| CFast | 1 Type II | |
| Mechanical | | |
| Dimensions | 206 (W) x 240 (D) x 210 (H) mm (8.11" x 9.45" x 8.27") | |
| Power Supply | | |
| DC Input | 12-24V (± 10% tolerance) | |
| AC Input | 280W AC/DC adapter | |
| Environmental | | |
| Operating Temperature | Standard: 0°C to 50°C, w/ air flow | |
| | Extended Temperature (w/ Ind. storage), w/ air flow -10°C to 50°C | |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) (excl. storage) | |
| Humidity | ~95% @ 40°C (non-condensing) | |
| Vibration | Operating: 5 Grms, 5-500 Hz, 3 axes (w/ 2.5" SSD/CFast) | |
| | Operating: 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD) | |
| Shock | Operating: 50 Grms, half sine 11ms duration (w/ 2.5" SSD/CFast) | |
| ESD | Contact +/-4KV, Air +/-8KV | |
| EMC | EN61000-6-4/-2, CE & FCC Class A | |
| Safety | UL/cUL, CB, CCC | |
| 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