

EOS-1000

4-CH PoE Compact Vision System with Intel® Multi-Core Processor



Introduction

ADLINK's EOS-1000 is a rugged and compact vision system that features an Intel® Multi-Core processor and four independent PoE (Power over Ethernet) ports. This system is ideal for high computing power and multi-camera imaging applications such as 3D vision robotic guidance.

By selecting long-life embedded components and incorporating system monitoring components to watch CPU temperature, fan speed, and system responsiveness, the EOS-1000 provides a very robust and reliable platform for mission critical applications.

Features

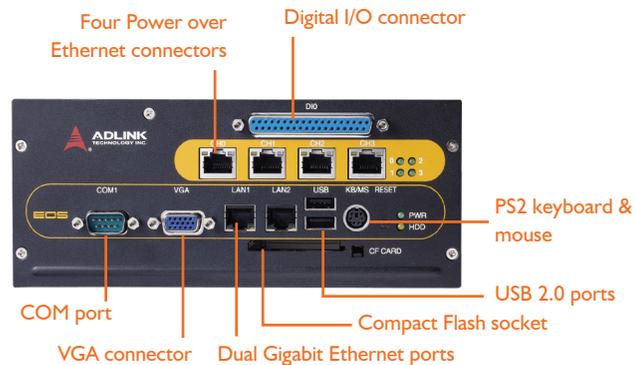
- Compact and rugged system design
- Embedded Intel® Multi-Core CPU
- Multi-camera solution: up to four Gigabit Ethernet cameras
- PoE, IEEE 802.3af Compliant, Powered Device (PD) auto detection
- Rich I/O support: RS-232/485, USB, and isolated digital I/Os
- Dual storage support: HDD and CompactFlash cards
- Hardware Monitoring: temperature, voltage, and watchdog timer

Applications

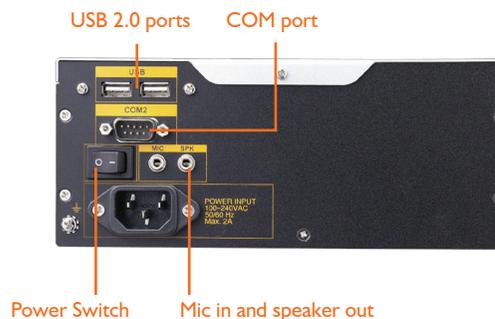
- Industrial Automation
- Robot Guidance
- Medical Imaging System

Software Support

- Windows® XP and XP Embedded



EOS-1000 Front View

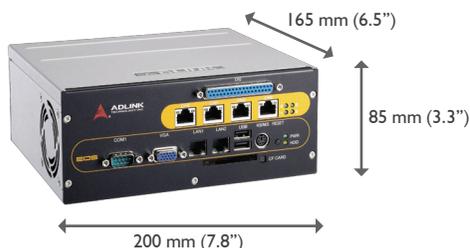


EOS-1000 Back View

Highlights

■ Compact and Rugged Design

The EOS-1000 is a compact-size 200 (W) x 165 (D) x 85 (H) mm (7.8" x 6.5" x 3.3") vision system. Designed for mission critical applications, the EOS-1000 underwent harsh vibration and shock testing during its design to ensure durability. While in operation, the EOS-1000 can tolerate vibrations of up to 5 G.



■ PoE Support

PoE (Power over Ethernet) technology allows power to be supplied through the Ethernet cable. Cable distances of up to 100 m can be used. This PoE solution can simplify system installation and lower the maintenance costs. The EOS-1000 also provides an auto detection function to ensure compatibility with both PoE, and conventional non-PoE devices.



■ Dual Data Storage

Most of the vision applications need two forms of data storage —while one is running the operation system and applications, the other is used to archive video, images, log files or the backup operation system. This system architecture of independent dual storage devices makes the EOS-1000 reliable and flexible.



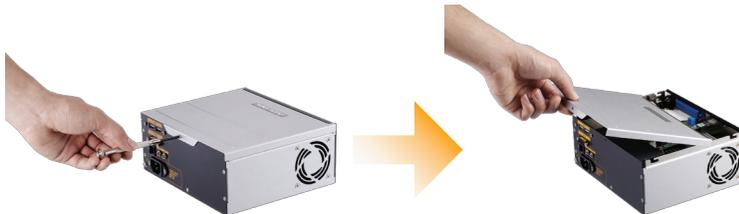
Compact Flash socket



HDD with SATA interface

■ Easy Maintenance

The EOS-1000 provides a user-friendly design for system installation. The upper cover can be easily opened by removing one screw. And its hot-swappable filter design also shortens the MTTR (Mean-Time-to-Repair) and increases the reliability for the system.



Open the top cover by removing only one screw



Hot swappable filter for easy replacement

Specifications

■ CPU	Intel® Core™ 2 Duo P8400, 2.26 GHz
■ System Memory	Up to 4 GB DDR3
■ Camera Interface	4-CH Power Over Ethernet IEEE 802.3af Compliant, Max. power output 7 W per channel
■ Chipset	Intel® GM45 / ICH9 Chipset
■ VGA	Analog CRT support up to 1600 x 1200
■ USB	Four USB ports, USB 2.0 compliant
■ Audio (Option)	AC97, Mic In/Speaker Out
■ COM Ports	COM1/COM2: RS-232/RS-422/RS-485 (set via the BIOS)
■ Digital I/O (Option)	16-CH Isolated Digital Input and Output, 5.0 KV isolation protection
■ Keyboard/ Mouse	Combed PS/2 type mini-DIN connectors
■ Power Supply	DC: 10 to 30 V _{DC} , AT mode AC: 90 to 240 V _{AC} , AT mode
■ Operating Temp.	0°C to 55°C
■ Humidity	0% to 90%
■ Dimensions	200 (W) x 165 (D) x 85 (H) mm (7.8" x 6.5" x 3.3")
■ Power Consumption	50 W (with 2 GB DDRAM and 2 GB CompactFlash)
■ Storage	One CompactFlash Type I, One 2.5" SATA HDD (optional)
■ Random Vibration	Operating: 5 to 100 Hz, 0.00142 g ² /Hz; 100 to 500 Hz, -6 dB/Octave, 0.5 Grms, 3 axes, 30 minutes/axis
■ Safety Compliance	CE/FCC, RoHS

Ordering Information

- **EOS-1000**
4-CH PoE Compact Vision System with Intel® Multi-Core Processor