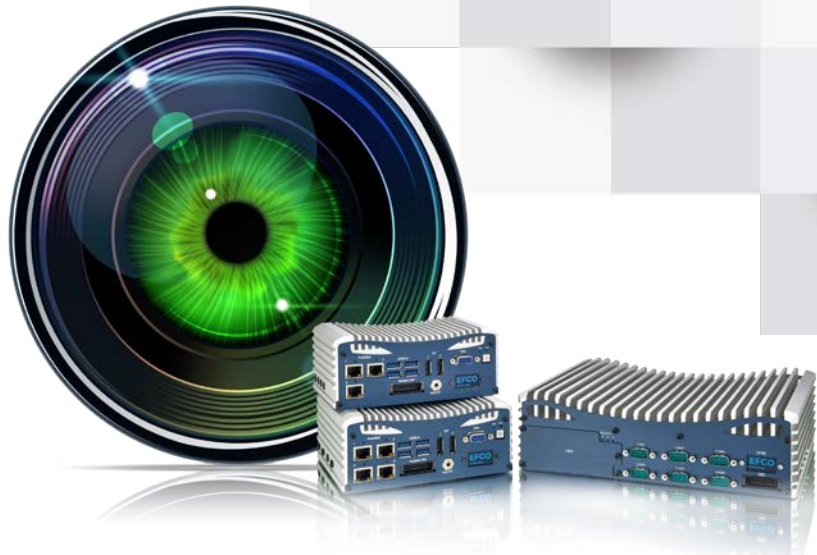


AIoT Solution

- Machine Vision
- Motion Control
- AI Solution
- HMI



Ether**CAT**[®] 



EFCO Eagle Eyes Intelligent Embedded Systems for AIoT Applications

Fanless | Scalable | Extendable

EFCO Eagle Eyes is a next-generation intelligent system for a variety of embedded applications. Equipped with state-of-the-art 6th/7th Generation Intel® Core™ i3/i5/i7 processor, Eagle Eyes supports up to twelve independent Gigabit PoE+ IEEE802.3at IP cameras.

Eagle Eyes is equipped with a proprietary artificial intelligence algorithm called eKit. The special software along with an ARM chip integrated in the device monitors the system parameters and evaluates its measured values. The Dynamic Display Module (DDM), a small OLED display on the front of the system, informs users about the device status and displays the measured values and/or error messages. With an API, user software can then be used to access the ARM controller or the display.

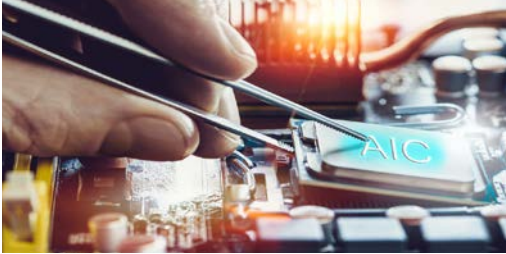
The compact design is ideal for machine vision, automation and space-constrained applications. The hardware design is also optimized so that customers do not need to purchase additional add-on cards for isolated DIO or PoE functions, design their own remote switches or power ignition system.

There are 6 different I/O module (IOM) options which can be added to fulfill customers' needs without the extra effort and cost of customization. With the development of Industrial Internet of Things (IIoT), it opens up even more diverse possibilities for applications.

Applications

<p>MACHINE VISION</p>	<p>EDGE COMPUTING</p>
<p>IN VEHICLE COMPUTER</p>	<p>GPU COMPUTING</p>
<p>SURVEILLANCE</p>	<p>AUTOMATED GUIDED VEHICLE</p>
<p>AUTOMATION</p>	<p>IIoT</p>

EFCO Smart Service - eKit AI Core System with Dynamic Display Module



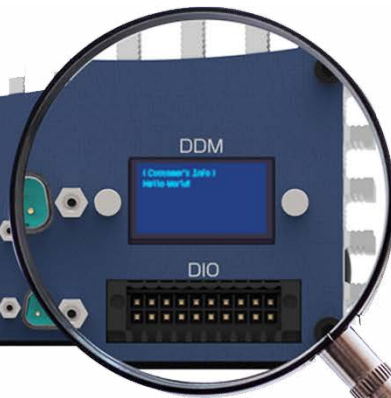
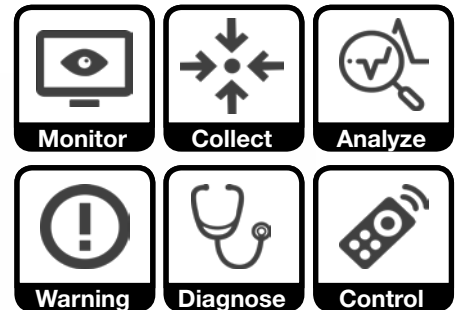
- Dynamic and real-time monitoring of system behavior
- System data collection
- Data analysis
- Predict behavior, system behavior prediction
- Prevent accident, system sudden accident diagnostic and prevention
- Warning for advance troubleshooting notification
- Proven reliability and system stability

Reliability is critical in many applications, EFCO is incorporating artificial intelligence into its devices to detect problems and trigger preventative maintenance.

Based on proprietary AI algorithms, Eagle Eyes' intelligent eKit is a software-based tool that collects data from the device and performs dynamic, real-time monitoring of system behavior. Its Dynamic Display Module (DDM) is a key feature of Eagle Eyes and displays system information such as CPU temperature, power consumption, RTC battery voltage, DC voltage, hardware health, and PoE status, as well as customized customer information. The EKit ensures that the system maintains stable operation at all times and provides advanced warning if proactive trouble-shooting is required. This prevents unpredictable losses due to sudden, or unexpected operating failures.

EFCO provides DMCT (Dynamic Monitoring Control Tool), one UI for customers to monitor the system status. For self-development applications, EFCO also provides API and Library (DMCI and DDMI).

Display Information



- | | | |
|---|--|--|
| ▶ SIM Card Present or not
(Communication Device) | ▶ POE <ul style="list-style-type: none"> ■ Device present status ■ Power consumption | ▶ Page Content
(Customized Information) |
| ▶ System Power <ul style="list-style-type: none"> ■ Power up mode ■ Power consumption | ▶ Product Model Name | ▶ Your Logo
(Customized Information) |
| ▶ FAN <ul style="list-style-type: none"> ■ RPM | ▶ CPU Temperature
(System Temperature) | |

Features

- Remote on/off power switch design
- Power ignition control design
- Software control USB devices without plugging and unplugging USB devices
- USB security latch reserved designed for system security
- Option for isolated DIO or GPIO design
- Easy maintenance for RTC battery tray, push-push SIM slot and swappable 2.5" HDD
- Flexible installation method: desktop, wall mount, DIN rail
- RAID 0/1/5 support
- Power Protection
 - Wide DC- input voltage range
 - Over-voltage/ Under-voltage/ Over-Current protection
 - Surge protection
 - Earth ground protection



Eagle Eyes-AIH

6th/7th Gen Intel® Core™ S Series & Intel® Xeon® E3 (FCLGA1151 Socket) Fanless Box Computer

- 1x IOM support
- 2x RJ45 GbE
- 4x RJ45 GbE/PoE+
- 6x USB 3.0
- 16-bit GPIO / 8-bit isolated DI, 8-bit isolated DO
- 4x RS-232, 2x RS-232/422/485
- 3x independent displays, 2x DP, 1x DVI, 1x VGA (3 of 4)
- 3x Mini-PCIe/mSATA
- 3x SIM slot
- 3x 2.5" internal SATA drive bay
- RAID 0/1/5 support

Eagle Eyes-AIH-EP

6th/7th Gen Intel® Core™ S Series & Intel® Xeon® E3 (FCLGA1151 Socket) Box Computer (Optional Fanless)

- 2x IOM support
- 2x RJ45 GbE
- 4x RJ45 GbE/ PoE+
- 6x USB 3.0
- 16-bit GPIO / 8-bit isolated DI, 8-bit isolated DO
- 4x RS-232, 2x RS-232/422/485
- 3x independent displays, 2x DP, 1x DVI, 1x VGA (3 of 4)
- 3x Mini-PCIe/mSATA
- 3x SIM slot
- 3x 2.5" internal SATA drive bay
- RAID 0/1/5 support
- AIH-EP1 — PCIe x16 + PCI
- AIH-EP2 — PCIe x16 + PCIe x4
- AIH-EP3 — 2x PCI

Eagle Eyes-AIM

6th/7th Gen Intel® Core™ U Series
Fanless Box Computer

- 4x RJ45 GbE / PoE+
- 4x USB 3.0
- 16-bit GPIO / 8-bit isolated DI, 8-bit isolated DO
- 2x RS-232, 2x RS-232/422/485
- 3x independent displays, 2x DP, 1x VGA
- 2x mini-PCIe
- 2x SIM slot
- 1x M.2 socket M Key 2242
- 1x 2.5" internal SATA drive bay



Eagle Eyes-AIHD/AIHDP

6th/7th Gen Intel® Core™ S Series & Intel® Xeon® E3
(FCLGA1151 Socket) DIN Rail Box Computer

- 6x RJ45 GbE (AIHD), 2x RJ45 GbE, 4x RJ45 GbE/PoE+ (AIHDP)
- 6x USB 3.0
- 32-bit / 16-bit isolated DI, 16-bit isolated DO
- 1x RS-232, 1x RS-232/422/485
- 3x independent displays, 2x DP, 1x DVI, 1x VGA (3 of 4)
- 3x mini-PCIe/mSATA
- 3x SIM slot
- 3x 2.5" internal SATA drive bay
- RAID 0/1/5 support



Eagle Eyes-AIHD-P4E/AIHDP-P4E

6th/7th Gen Intel® Core™ S Series & Intel® Xeon® E3
(FCLGA1151 Socket) DIN Rail Box Computer

- 6x RJ45 GbE (AIHD-P4E), 2x RJ45 GbE, 4x RJ45 GbE/PoE+ (AIHDP-P4E)
- 6x USB 3.0
- 32-bit GPIO / 16-bit isolated DI, 16-bit isolated DO
- 1x RS-232, 1x RS-232/422/485
- 3x independent displays, 2x DP, 1x DVI, 1x VGA (3 of 4)
- 3x mini-PCIe/mSATA
- 3x SIM Slot
- 3x 2.5" internal SATA
- RAID 0/1/5 support
- AIHD-P4E1: 1x PCIe x16 & 3x PCI

Our Services

Flexible and Collaborative Manufacturing Services

With more than 26 years experience, EFCO offers turnkey manufacturing services with state-of-the-art production equipment for both PCB assembly and complete system builds. EFCO utilizes its professional manufacturing process with customized designs in support of small/medium/large-volume and high-mix orders to achieve quick production ramp up and competitive ROI benefits. EFCO's in-house production center provides not only box-build services, but also Conformal Coating, Extended Temperature Screening, and Burn-In services, to ensure the best quality and product longevity.

International Quality Assurance Standards

EFCO is ISO 13485 and ISO 9001 certified, and its total quality management covers customer satisfaction, supplier management, product design and verification, manufacturing, and quality assurance. EFCO proudly offers our customers innovative products and services with the highest level of quality.

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