

# AIIS-3410P (PoE) AIIS-3410U (USB 3.0)

**Compact Vision System, Intel® 6th/7th Gen Core i CPU, 4-CH Camera Interface for GigE PoE or USB 3.0, PCIe expansion slot**



## Features

- Intel 6th/7th generation Core i CPU (LGA1151)
- AIIS-3410P: 4-CH GbE PoE (Power over Ethernet)
  - Powered device auto detection and classification
  - IEEE 802.3af compliant, supports IEEE 1588
  - Compatible with GigE cameras
- AIIS-3410U: 4-CH USB 3.0 with dedicated controller
  - Maximize the USB3.0 bandwidth for multi-cameras
  - Compatible with USB 3.0 cameras
- Compact & thoughtful design
  - PCIe or PCI extension compatibility
  - Isolated Digital I/O
  - Internal USB 2.0 connector



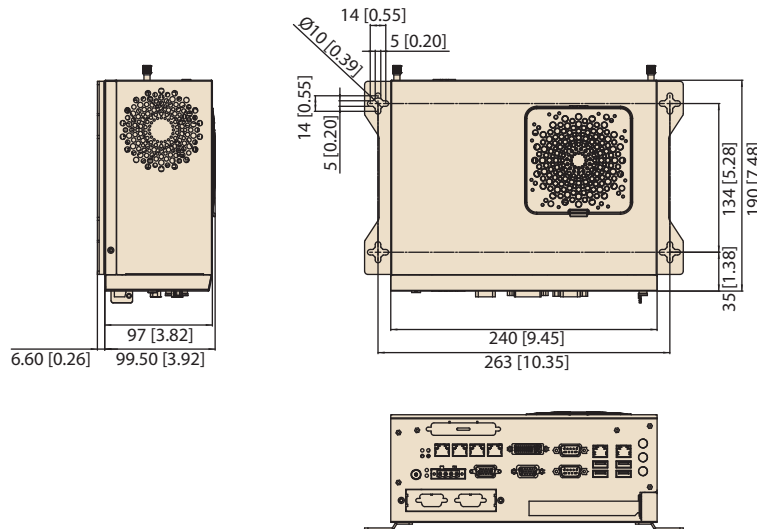
## Specifications

|                                         |                          | 6th generation CPU                                                            |                                           |         |         |                                             | 7th generation Core i CPU |         |          |
|-----------------------------------------|--------------------------|-------------------------------------------------------------------------------|-------------------------------------------|---------|---------|---------------------------------------------|---------------------------|---------|----------|
| Processor System                        | CPU                      | i7-6700                                                                       | i5-6500                                   | i3-6100 | G4400   | G3900                                       | i7-7700                   | i5-7500 | i3-7101E |
|                                         | Core                     | 4                                                                             | 4                                         | 2       | 2       | 2                                           | 4                         | 4       | 2        |
|                                         | Base Frequency           | 3.4 GHz                                                                       | 3.2 GHz                                   | 3.7 GHz | 3.3 GHz | 2.8 GHz                                     | 3.6GHz                    | 3.5GHz  | 3.9GHz   |
|                                         | L3 Cache                 | 8 MB                                                                          | 6 MB                                      | 4 MB    | 3 MB    | 2 MB                                        | 8MB                       | 6MB     | 3MB      |
|                                         | Chipset                  | H110                                                                          |                                           |         |         |                                             |                           |         |          |
|                                         | BIOS                     | AMI 128Mb SPI Flash                                                           |                                           |         |         |                                             |                           |         |          |
| Memory                                  | Technology               | Dual Channel DDR4 1866/2133 MHz (non-ECC)                                     |                                           |         |         |                                             |                           |         |          |
|                                         | Max. Capacity            | 32 GB (16 GB per DIMM)                                                        |                                           |         |         |                                             |                           |         |          |
|                                         | Socket                   | 260-pin SO-DIMM                                                               |                                           |         |         |                                             |                           |         |          |
| Graphics                                | Chipset Integrated       | Integrated Intel HD Graphics                                                  |                                           |         |         |                                             |                           |         |          |
| Ethernet                                | Interface                | 10/100/1000 Mbps                                                              |                                           |         |         |                                             |                           |         |          |
|                                         | Controller               | LAN1: Intel i219LM, LAN2: Intel i210AT (Both support Wake on LAN)             |                                           |         |         |                                             |                           |         |          |
| Camera Interface PoE (AIIS-3410P)       | Controller               | CH1 ~ CH4: Intel i210                                                         |                                           |         |         |                                             |                           |         |          |
|                                         | Compliant                | IEEE 802.3af                                                                  |                                           |         |         |                                             |                           |         |          |
|                                         | Power Output             | 15W per channel / 30W for 1 & 2 channel                                       |                                           |         |         |                                             |                           |         |          |
| Camera Interface USB 3.0 (AIIS-3410U)   | Controller               | CH1 ~ CH4: uPD720202                                                          |                                           |         |         |                                             |                           |         |          |
|                                         | Compliant                | USB 3.0                                                                       |                                           |         |         |                                             |                           |         |          |
|                                         | Power Output             | 4.5W per Channel                                                              |                                           |         |         |                                             |                           |         |          |
| Storage                                 | Internal 2.5" HDD Bay    | 1 (max. 9.5 mm height)                                                        |                                           |         |         |                                             |                           |         |          |
|                                         | CFast                    | 1                                                                             |                                           |         |         |                                             |                           |         |          |
| Expansions                              | PCIe                     | 1 (PCIe x16 slot with x8 signal), full height: 111.15 mm, length: max. 172 mm |                                           |         |         |                                             |                           |         |          |
|                                         | miniPCIe                 | 1 (USB2.0/SATA)                                                               |                                           |         |         |                                             |                           |         |          |
|                                         | i-door                   | 1                                                                             |                                           |         |         |                                             |                           |         |          |
| Front I/O                               | Display                  | VGA + DVI-D                                                                   |                                           |         |         |                                             |                           |         |          |
|                                         | USB                      | 4 USB3.0                                                                      |                                           |         |         |                                             |                           |         |          |
|                                         | Serial                   | 2 (RS-232/422/485, via BIOS setting ; RS-485 support auto-flow control)       |                                           |         |         |                                             |                           |         |          |
|                                         | Isolated DIO (Default)   | 4 DI and 4 DO Channels                                                        |                                           |         |         |                                             |                           |         |          |
|                                         | Isolated DIO (Optional)  | AIIS-E730-AE (16-CH DI, 16-CH DO)                                             |                                           |         |         |                                             |                           |         |          |
|                                         |                          | High output driving capacity (500 mA max./channel)                            |                                           |         |         |                                             |                           |         |          |
| Interrupt capable for all 16 DI channel |                          |                                                                               |                                           |         |         |                                             |                           |         |          |
| Internal Connector                      | USB                      | 1 USB 2.0 connector                                                           |                                           |         |         |                                             |                           |         |          |
|                                         | Output                   | System reset                                                                  |                                           |         |         |                                             |                           |         |          |
|                                         | Interval                 | Programmable 1 ~ 255 sec/min                                                  |                                           |         |         |                                             |                           |         |          |
| Power Requirement                       | Power Type               | ATX/AT                                                                        |                                           |         |         |                                             |                           |         |          |
|                                         | Power Input Voltage      | 19 V <sub>DC</sub> ~ 24 V <sub>DC</sub> (± 10%)                               |                                           |         |         |                                             |                           |         |          |
|                                         | Minimum Power Input      | DC 19-24V @ 8-6.3A                                                            |                                           |         |         |                                             |                           |         |          |
|                                         | Power Adapter            | AC to DC, DC24V/9.16A, 220W (Optional)                                        |                                           |         |         |                                             |                           |         |          |
| Cooling                                 | System Fan               | 1 (8 cm/57 CFM)                                                               |                                           |         |         |                                             |                           |         |          |
| Miscellaneous                           | LED Indicators           | Power, HDD, temperature                                                       |                                           |         |         |                                             |                           |         |          |
|                                         | Control                  | Power on/off switch                                                           |                                           |         |         |                                             |                           |         |          |
| Environment                             | Temperature              | Operating<br>0 ~ 45 °C (32 ~ 113 °F)*                                         |                                           |         |         | Non-operating<br>-40 ~ 70 °C (-40 ~ 158 °F) |                           |         |          |
|                                         | Humidity                 | 10 ~ 95% @ 40 °C, non-condensing                                              |                                           |         |         | 10 ~ 95% @ 60 °C, non-condensing            |                           |         |          |
|                                         | Vibration                | 0.5Grms, random, 5~500Hz, 3 axes, 1 hr/axis                                   |                                           |         |         | 2G, sine wave, 5~500Hz, 3 axes, 1 hr/axis   |                           |         |          |
|                                         | Shock                    | 10G, half sine wave, 11 ms duration                                           |                                           |         |         |                                             |                           |         |          |
|                                         | Physical Characteristics | Dimension (W x H x D)                                                         | 240 x 97 x 190 mm (9.45" x 3.82" x 7.48") |         |         |                                             |                           |         |          |
|                                         | Weight                   | 2.4 kg (5.29 lb) (w/o CPU cooler)                                             |                                           |         |         |                                             |                           |         |          |

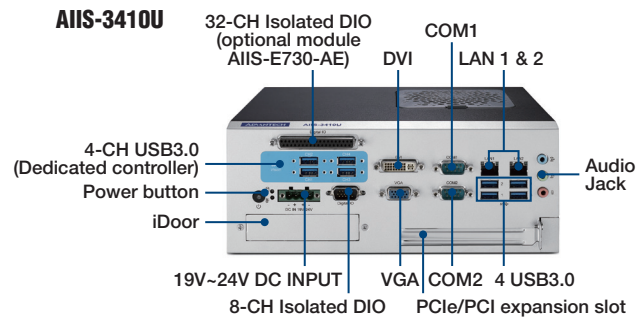
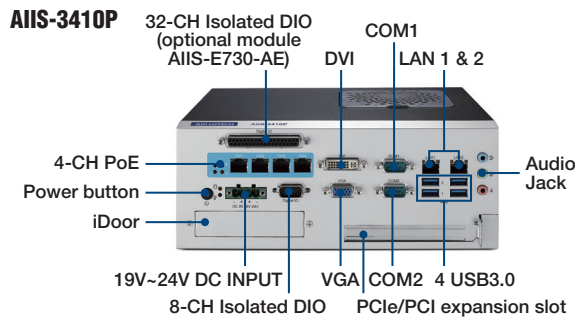
\* Depends on CPU

# **AIIS-3410P (PoE)** **AIIS-3410U (USB 3.0)**

## **Dimensions**



## **Front View**



## **Ordering Information**

| Part Number      | Camera Interface | Display   | USB 3.0 | Isolated DIO | COM 232/422/485 | Expansion slot      |
|------------------|------------------|-----------|---------|--------------|-----------------|---------------------|
| AIIS-3410P-00A1E | 4-CH GigE PoE    | VGA+DVI-D | 4       | 8-CH         | 2               | 1 PCIe x8 or 1 PCI* |
| AIIS-3410U-00A1E | 4-CH USB 3.0     | VGA+DVI-D | 4       | 8-CH         | 2               | 1 PCIe x8 or 1 PCI* |

\* Optional PCI riser card

## **Packing List**

| Items                            | Part Number    | Quantity |
|----------------------------------|----------------|----------|
| Bare System                      | AIIS-3410      | 1        |
| Startup manual (EN/CN)           | 2001341000     | 1        |
| Startup manual (TC)              | 2001341010     | 1        |
| Driver CD                        | 2061340011     | 1        |
| Wallmount Bracket                | 1960014487T006 | 2        |
| Hole Protector                   | 1990022908S000 | 4        |
| CPU Cooler                       | 1960060620N001 | 1        |
| 4-pin Phoenix DC power connector | 1652003234     | 1        |
| 2-pin Phoenix DC power connector | 1652002205     | 1        |

## **Embedded OS**

| Part Number | Description                               |
|-------------|-------------------------------------------|
| 2070014568  | img WES7P AIIS-3400/3410 x64 V5.8.0 10MUI |

\*7th generation CPU only supports Win10 OS

## **Optional Accessories**

| Part Number       | Description                                          |
|-------------------|------------------------------------------------------|
| 96PSA-A220W24P4-1 | 220Watt DC24 Adapter                                 |
| 1702002600        | Power cord 3-pin UL/CSA (USA) 125 V 10A 1.83 M 180D  |
| 1700022940-01     | Power cord PSE 7A 125 V 3P 3 m DAC-ST01              |
| 1702002605        | Power cord 2P (France) 10A/16A 220 V 1.83 M 90D      |
| 1700023217-01     | 8-CH DIO Cable for Wiring Board                      |
| ADAM-3925-AE      | 8-CH DIO DB-25 Wiring Terminal, DIN-rail Mount       |
| AIIS-DIO32-00A1E  | Isolated DIO module, 32-CH, 9-pin USB interface      |
| AIIS-E730-AE      | Isolated DIO module, 32-CH, MIO with PCIe1 interface |
| PCL-10137-1E      | 32-CH DIO Cable 1M for Wiring Terminal               |
| ADAM-3937-BE      | 32-CH DIO DB-37 Wiring Terminal, DIN-rail Mount      |
| 9891341010E       | PCI riser module for additional PCI card             |
| PCL-10137-1E      | M Cable D-SUB 37P(M)/D-SUB 37P(M) 100CM              |

Note:

- AIIS-3410 supports the i-door module (both MOS and PCM series). Visit the Advantech website for more information.
- The PCM series module requires a bracket (P/N: 1960065854N001) that must be ordered separately.