

AIIS-3411P (PoE) AIIS-3411U (USB 3.0)

Compact Vision System, Intel® 10th Gen Core i CPU, 4-CH Camera Interface for GigE PoE or USB 3.0, PCIe expansion slot, supports 4-CH Lighting and Isolated DIO



Features

- Intel 10th generation Core i CPU (LGA1200)
- AIIS-3411P: 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-3411U: 4-CH USB 3.0 with dedicated controller
 - Maximize the USB3.0 bandwidth for multi-cameras
 - Compatible with USB 3.0 cameras
- Optional AIIS-1882 module for lighting control and isolated DIO
 - Supports 4-ch lighting control output powered by internal 12V_{DC}/1A per channel with trigger input or optional external power input 12-24V_{DC}, 2A max.
 - Programmable delay time, PWM high/low time and lighting output duration
 - 12-ch isolated digital input and 16-ch isolated digital output
 - 2,500V_{DC} isolation protection for all I/O signals



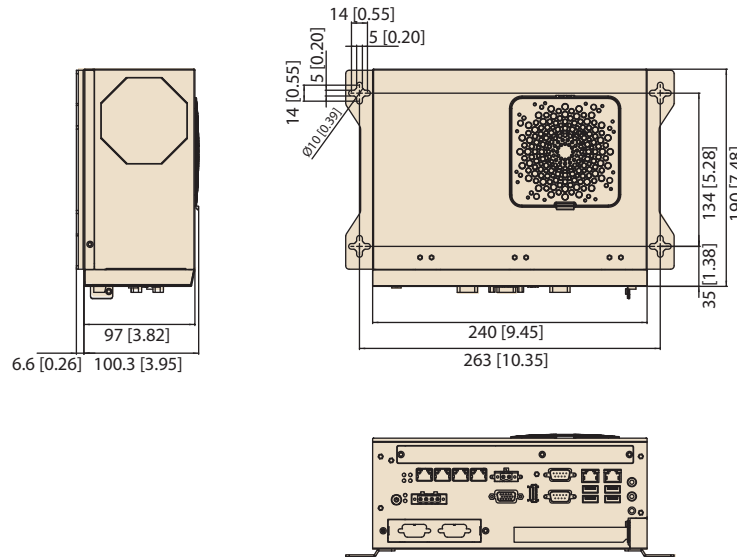
Specifications

| | | | | | | | | | | | | | |
|-----------------------------------|--------------------------|--|---|-----------|------------|-----------|------------|-----------------------------|------------|----------|----------|----------|----------|
| Processor System | CPU | i9-10900E | i9-10900TE | i7-10700E | i7-10700TE | i5-10500E | i5-10500TE | i3-10100E | i3-10100TE | G6400E | G6400TE | G5900E | G5900TE |
| | Core | 10 | 10 | 8 | 8 | 6 | 6 | 4 | 4 | 2 | 2 | 2 | 2 |
| | Base Frequency | 2.80 GHz | 1.80 GHz | 2.90 GHz | 2.00 GHz | 3.1GHz | 2.3GHz | 3.20 GHz | 3.60 GHz | 3.80 GHz | 3.20 GHz | 3.20 GHz | 3.00 GHz |
| | L3 Cache | 20MB | 20MB | 16MB | 16MB | 12MB | 12MB | 6MB | 6MB | 4MB | 4MB | 2 MB | 2 MB |
| | Chipset | H420E | | | | | | | | | | | |
| BIOS | AMI 128Mb SPI Flash | | | | | | | | | | | | |
| Memory | Technology | Dual Channel DDR4 Dual-channel DDR4 2933/2666 MHz (non-ECC) | | | | | | | | | | | |
| | Max. Capacity | 64GB | | | | | | | | | | | |
| | Socket | 2 x 260-pin DDR4 SODIMM (up to 32GB per socket) | | | | | | | | | | | |
| Graphics | Chipset Integrated | Intel® HD Graphics | | | | | | | | | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | | | | | | | | | |
| | Controller | LAN 1: Intel I219-V; LAN 2: Intel I210-AT | | | | | | | | | | | |
| Camera Interface PoE (AIIS-3411P) | Controller | CH1 - CH4: Intel i210AT | | | | | | | | | | | |
| | Compliant | IEEE 802.3af | | | | | | | | | | | |
| | Power Output | 15W per channel / 30W for 1 & 2 channel | | | | | | | | | | | |
| Camera Interface USB (AIIS-3411U) | Controller | CH1 - CH4: µPD720202 | | | | | | | | | | | |
| | Compliant | USB 3.0 | | | | | | | | | | | |
| | Power Output | 4.5W per Channel | | | | | | | | | | | |
| Lighting | Output | 4 ports of 2-pin/ 3-pin connector to supply power to light units (optional AIIS-1882 module) | | | | | | | | | | | |
| Storage | SSD/HDD | 1 x 2.5" (max. 9.5 mm height) | | | | | | | | | | | |
| | mSATA | 1 x full size mSATA (miniPCIe1) | | | | | | | | | | | |
| Expansion | PCIe | 1 x PCIe x16 slot with x8 Gen. 3 signal, full height: 119.33 mm, length: max. 176.27 mm | | | | | | | | | | | |
| | mPCIe | 1 full size mPCIe with PCIe Gen. 2 and USB 2.0 signal (miniPCIe2) | | | | | | | | | | | |
| | iDoor | 1 x iDoor slot | | | | | | | | | | | |
| Front I/O | Display | VGA + HDMI 1.4 | | | | | | | | | | | |
| | USB | 4 x USB3.2 (Gen. 1), 1 x internal USB 2.0 | | | | | | | | | | | |
| | Serial | 2 x RS-232/422/485 (setting via BIOS) | | | | | | | | | | | |
| | Audio | 2 (Line-out/Mic-in) | | | | | | | | | | | |
| | Isolated DIO (Optional) | 4-channel lighting trigger, 12-DI, 16-CH DO (Optional AIIS-1882) | | | | | | | | | | | |
| Watchdog Timer | Output | System reset | | | | | | | | | | | |
| | Interval | Programmable 1 ~ 255 sec/min | | | | | | | | | | | |
| Power Requirement | Power Type | ATX/AT | | | | | | | | | | | |
| | Power Input Voltage | 19 V DC ~ 24 V DC (± 10%) | | | | | | | | | | | |
| | Minimum Power Input | DC 19-24V @ 11.28-9.02A | | | | | | | | | | | |
| | Power Adapter | AC to DC, DC24V/9.16A, 230W (Optional) | | | | | | | | | | | |
| Environment | Temperature | Operating 0°C-50°C | | | | | | Non-operating -40°C-70°C | | | | | |
| | 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; 1G (with SSD) | | | | | | | | | | | |
| | 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 | 2.56kg | | | | | | | | | | | |

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Dimensions

Unit: mm [inch]



*Add-on card area: 119.33 x 176.27 mm (4.70" x 6.94")

Ordering Information

| Part Number | Camera Interface | Display | USB 3.0 | COM 232/422/485 | Expansion slot |
|-----------------|------------------|------------|---------|-----------------|-----------------------|
| AIIS-3411P-00A1 | 4-CH GigE PoE | VGA + HDMI | 4 | 2 | 1 x PCIe x8 or 1 PCI* |
| AIIS-3411U-00A1 | 4-CH USB 3.0 | VGA + HDMI | 4 | 2 | 1 x PCIe x8 or 1 PCI* |

* Optional PCI riser card

Packing List

| Description | Part Number | Quantity |
|---|----------------|----------|
| Base System | AIIS-3411 | 1 |
| Startup manual (EN/CN) | 2041341100 | 1 |
| Wall Mount Bracket | 1960014487T006 | 2 |
| CPU Cooler | 1960053207N001 | 1 |
| 4-pin Phoenix power connector | 1652003234 | 1 |
| 2-pin Phoenix connector for remote switch | 1652002205 | 1 |

Embedded OS

| Part Number | Description |
|----------------|-------------------------------------|
| 20706WX9HS0146 | img W10 19HL AIIS-3411 64b 1809 ENU |
| 20706WX9VS0150 | img W10 19VL AIIS-3411 64b 1809 ENU |
| 20706WX9ES0161 | img W10 19EL AIIS-3411 64b 1809 ENU |

Optional Accessories

| Part Number | Description |
|-------------------------|---|
| AIIS-1882 (Coming soon) | 4-ch Lighting Control with Isolated DIO through B2B connector |
| 9891341010E | PCI Riser card |
| 96PSA-A230W24P4-3 | ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 4P |
| 1702002600 | Power Cord UL 3P 10A 125V 183cm |
| 1702002605 | Power Cord EU 3P 10A 250V 183cm |
| 1700022940-01 | Power Cord PSE 3P 7A 125V 300cm |
| PCIE-1674E-AE | 4-port PCI express GbE card |
| 1700024858-01 | A CABLE 2*2P-4.2/2*2P-4.2 15cm (for PCIE-1674) |

Note:

- AIIS-3411 supports the i-Door module. Visit the Advantech website for more information.
- The PCM series module requires a bracket (P/N: 1960065854N001) that must be ordered separately.