

AIMB-217 A2

Intel Pentium , Celeron & Atom x7
Mini-ITX with HDMI/DP/VGA, 6 COM, and
Dual LAN

NEW



Features

- Supports Intel Pentium, Celeron Quad Core & Dual Core processor
- Two 204-pin SO-DIMM up to 8 GB DDR3L 1866 MHz SDRAM
- Supports DP 1.2/HDMI 1.4b/VGA
- Supports 1 PCIe x1 or 1 M.2 (E key), 1 MiniPCIe, 6 COMs, 4 USB 3.0, and 4 USB 2.0
- Lower total cost of ownership with DC12V support and onboard TPM1.2/2.0 (optional)
- Supports WISE-PaaS/RMM and Embedded Software APIs

Software APIs:



Utilities:

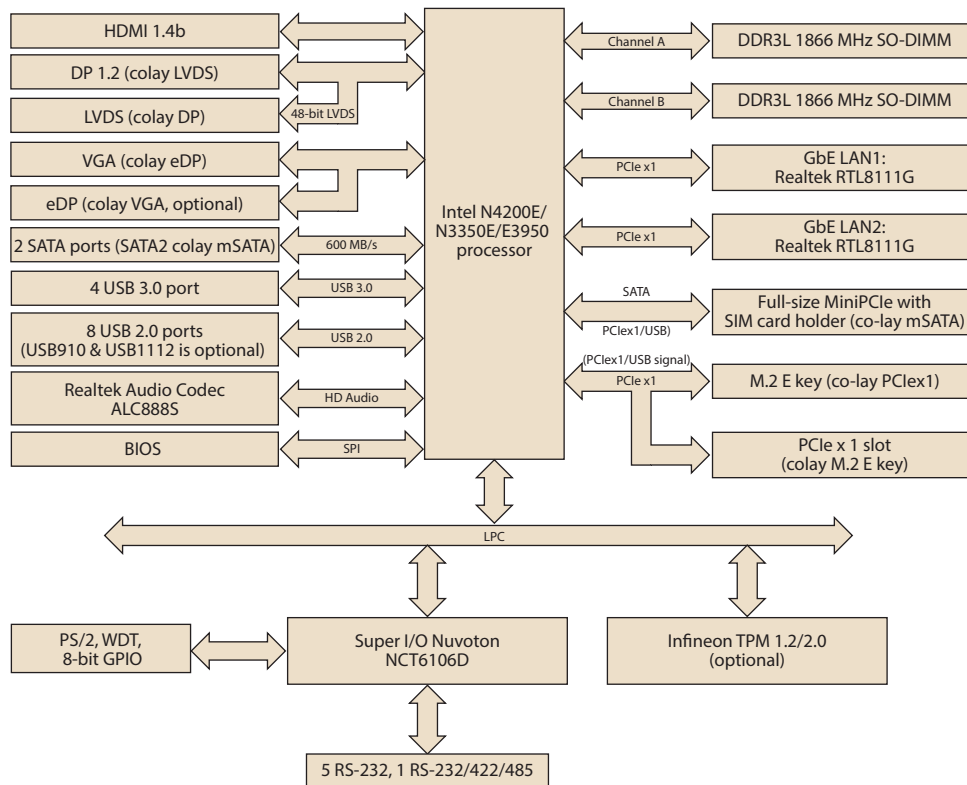


WISE-DeviceOn CE FCC RoHS COMPLIANT

Specifications

| | | | | |
|--------------------------|---------------------------|--|----------------------------|----------|
| Processor System | CPU (14nm) | N4200E | N3350E | x7-E3950 |
| | Core Number | 4 | 2 | 4 |
| | Max. Speed | 1.1 GHz | 1.1 GHz | 1.6 GHz |
| | BIOS | AMI 128 Mbit SPI | | |
| Expansion Slot | M.2 | E key for wireless module (Type: 2230) | | |
| | Mini-PCIe | 1 (F/S with SIM card holder) | | |
| | PCIe | PCI Express x1 (Gen2), colay M.2 E key | | |
| Memory | Technology | Dual channel DDR3L 1866 MHz SDRAM | | |
| | Max. Capacity | 8 GB/8 GB per SO-DIMM | | |
| | Socket | 2 x 204-pin SO-DIMM (Non-ECC) | | |
| Graphics | Controller | Intel Gen 9 Graphics Engines and media encode/decode engine | | |
| | VGA/eDP | 1 VGA supports up to 1920 x 1200 @ 60Hz co-lay eDP. eDP is BOM optional which supports up to 4096 x 2160 @ 60 Hz | | |
| | HDMI | 1 HDMI 1.4b supports up to 3840 x 2160 @ 30 Hz | | |
| | DP+/LVDS | 1 DP 1.2 supports up to 4096 x 2160 @ 60 Hz; co-lay with LVDS supports dual channel 48-bit up to 1920 x 1200 | | |
| | Triple display | VGA (or EDP) + DP (or LVDS) + HDMI | | |
| Ethernet | Interface | 10/100/1000 Mbps | | |
| | Controller | GbE LAN1: Realtek 8111G GbE LAN2: Realtek 8111G | | |
| | Connector | RJ-45 x 2 | | |
| SATA | Max Data Transfer Rate | 600 MB/s | | |
| | Channel | 2, SATA 2 colay mSATA | | |
| Rear I/O | VGA | 1 | | |
| | DP 1.2 | 1 | | |
| | HDMI 1.4b | 1 | | |
| | Ethernet | 2 | | |
| | USB | 4 (USB 3.0) | | |
| | Audio | 1 (supports Line-out by default, converts to Mic in or Line in) | | |
| | DC jack | 1 (2.5 mm) | | |
| Internal Connector | LVDS & Inverter | 1/1 | | |
| | eDP | 1 (optional) | | |
| | USB | 4 (USB 2.0) | | |
| | Serial | 6 (5 x RS-232, 1 x RS-232/422/485; COM 3 support RS-232/422/485 auto flow control; COM 6 support 5V/12V by jumper selection) | | |
| | IDE | None | | |
| | SATA | 2 | | |
| | SATA PWR Connector | 2 | | |
| | Parallel | None | | |
| | Mini-PCIe | 1 (F/S with SIM card holder), co-lay mSATA | | |
| | M.2 | 1 (E key for wireless module support) | | |
| | GPIO | 8-bit | | |
| PS/2 KB & MS | 1 | | | |
| Watchdog Timer | Output | System reset | | |
| | Interval | Programmable 1 ~ 255 sec/min | | |
| Power | Power Type | Single voltage 12V DC input; 1 x External DC jack; 1 x Internal 4-pin (2x2) power connector; Supports AT/ATX mode | | |
| | Typical Power Consumption | Windows Idle mode: 7.546W (Intel N4200 1.1GHz/DDR3L 1866MHz 4GB x 2pcs) | | |
| Environment | Temperature | Operating | Non-Operating | |
| | | 0 ~ 60° C (32 ~ 140° F) with 0.7m/s air flow (for D/N SKU) -20 ~ 70° C (-4 ~ 158° F) with 0.7m/s air flow (for Z SKU) | -40 ~ 85° C (-40 ~ 185° F) | |
| Physical Characteristics | Dimensions | 170 x 170 mm (6.69" x 6.69") | | |

Block Diagram



Ordering Information

| Part Number | CPU | Memory | VGA/eDP | HDMI | DP/LVDS | GbE LAN | COM | SATA III | USB3.0/2.0 | MiniPCle | M.2 | TPM | AMP | PClex1 | Thermal Solution | Operating Temp. |
|-----------------|----------|--------|---------|------|---------|---------|-----|----------|------------|----------|-----|-----|----------|--------|------------------|-----------------|
| AIMB-217D-S6A2E | N4200E | 2 | 1 / (1) | 1 | 1 | 2 | 6 | 2 | 4/4 | 1 (F/S) | 1 | (1) | (2 x 6W) | 1 | Passive | 0 ~ 60° C |
| AIMB-217N-S6A2E | N3350E | 2 | 1 / (1) | 1 | 1 | 2 | 6 | 2 | 4/4 | 1 (F/S) | 1 | (1) | (2 x 6W) | 1 | Passive | 0 ~ 60° C |
| AIMB-217Z-S6A2E | x7-E3950 | 2 | 1 / (1) | 1 | 1 | 2 | 6 | 2 | 4/4 | 1 (F/S) | 1 | (1) | (2 x 6W) | 1 | Passive | -20 ~ 70° C |

Note: Passive = fanless

* () BOM options available on MP version

Packing List

| Part Number | Description | Quantity |
|----------------|--------------------------------------|----------|
| 1700003194 | SATA HDD cable | 1 |
| 1700018785 | SATA power cable | 1 |
| 1700008876 | 1-to-4 serial ports cable kit, 35 cm | 1 |
| 1700100250 | 1-to-1 serial port cable, 25 cm | 2 |
| 1960079933T000 | I/O port bracket | 1 |
| 2006B21701 | Startup manual | 1 |
| 1960064228N001 | Fanless heatsink for AIMB-217D/N | 1 |
| 1960071473T011 | Fanless heatsink for AIMB-217Z | 1 |

Optional Accessories

| Part Number | Description |
|------------------|--|
| 96PSA-A60W12V1-1 | Adapter AC100-240V 60W +12V/5A |
| 96PSA-A84W12V1 | Adaptor AC100-240V 84W, 12V/7A |
| 1703060191 | KBMS cable 1*6P-2.5/DIN-6P(F)*2, 25 cm |
| 1700023082-11 | ATX 2*10P to 1*3P-2.0 15cm cable |
| 1700024790-01 | A Cable USB-A 4P(F)*2/2*5P-2.0 20CM F/10 |
| 1700023474-01 | A Cable USB-A 4P(F)*2/2*5P-2.0 34.5CM F/10 |

Optional Chassis

| Part Number | Description |
|-----------------|---|
| AIMB-B2000-00YE | Mini-ITX chassis with optional DC Adaptor |

I/O View



OS/API

| OS/API | Part No. | Description |
|------------|----------------|--------------------------------------|
| Win 10 IoT | 2070014970 | img W10 16EL AIMB-217 64bit 1701 Eng |
| Yocto | 320TA217000101 | AIMB-217 Yocto image RC.3.2 |

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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