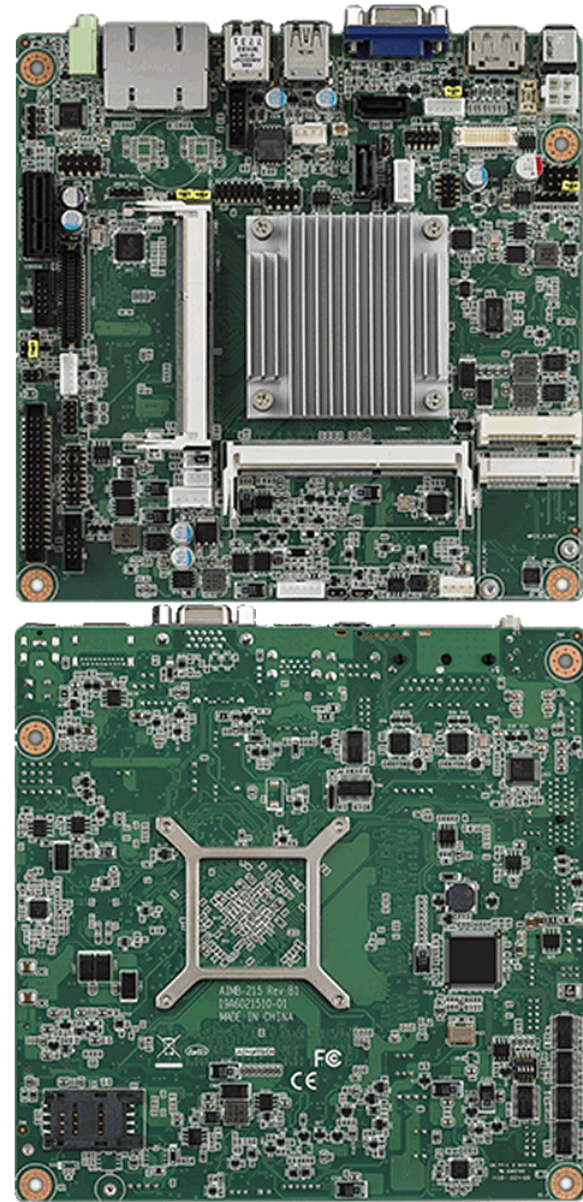


AIMB-215 Mini-ITX



Up to 8 GB DDR3L 1333 MHz SDRAM

6x Serial Ports (1x RS-232/422/485, 5x RS-232)

2x Gigabit Ethernet

VGA/eDP 1.2 & 24-bit dual channel LVDS

7x USB Ports (6x USB 2.0, 1x USB 3.0)

2x SATA, 1x mSATA

Two On-board SATA Connectors with Data Transmission up to 300 MB

Controller: Embedded Gen7, Gfx frequency 688/313/313 MHz for J1900/N2930/N2807

Display memory: Dynamically shared system memory of up to 224 MB

VGA: Supports a display resolution of up to 2560 x 1600 @ 60 Hz

LVDS: Supports a display resolution of up to 1920 x 1200 @ 60 Hz

DisplayPort 1.2: Supports up to 2560 x 1600 @ 60 Hz

Watchdog timer: Can generate a system reset.

GPIO connector: One 8-bit general purpose input/output

1x PCIe Slot, 1x Full Size MiniPCIe and 1x Half Size MiniPCIe Socket

SPI 16-Mbit BIOS (supports OS in legacy mode for 32 and 64 bit, and supports OS in UEFI mode for 64-bit)

Supports SUSIAccess and Embedded Software APIs

Operating temperature: 0 ~ 60 °C (32 ~ 140 °F, depending on the CPU)

Storage temperature: -40 ~ 85 °C (-40 ~ 185 °F)

Humidity: 5 ~ 95% non-condensing

Power supply voltage: +12 V

Power consumption: +12 V @ 2.03 A (Intel J1900 2.0 GHz processor/DDR3L 1333 MHz 4 GB x 2)

Dimensions: 170 x 170 mm (6.69 x 6.69")

Weight: 0.365 kg

The AIMB-215 B1 with Intel® Celeron™ J1900/N2930/N2807 processor is designed for industrial applications that require enhanced computing performance and power management capabilities. The motherboard features an onboard Intel® Celeron™ J1900/N2930/N2807 quad-core 2.0/1.83 and dual-core 1.58 GHz CPU with DDR3L 1333MHz of up to 8 GB. The AIMB-215 B1 offers rich I/O connectivity with one USB 3.0 and nine USB 2.0 ports, as well as six COM ports integrated in a standard 170 x 170 mm form factor. The system also supports dual display for LVDS, DP++ and VGA. AIMB-215 B1 also features numerous connectivity and expansion options, including PCIe x1, 8-bit GPIO, two SATA II 3GB/s connectors, an optional TPM security feature, and two Mini-PCIe expansion slots for easy integration. A dual Intel® chipset and 10/100/ 1000 Mbps Ethernet port are also provided to deliver high-speed networking. AIMB-215 B1 is powered by the newest Intel® Celeron™ processor, which is built on 22nm process technology. The thermal design power rating for the

Intel N2807 dualcore architecture is only 4.3 W, and that for the quad-core N2930/J1900 design is only 7.5 W/10 W, allowing additional power reductions, system compressions, and performance improvements to be implemented in the future. All the features described above are incorporated into a space-saving, power-efficient, and cost-effective Mini-ITX form factor.

Specifications

Form Factor

Processor

Intel® Celeron™ J1900 or N2930 or N2807 Quad Core

Clock Speed:

2 GHz

Real Time Clock:

Memory

BIOS/Bootloader:

AMI 16 Mbit SPI BIOS

Primary I/O

GPIO:

8-bit GPIO

Disk Interface:

2x SATA / 2x colay mSATA (optional)

Video Out:

VGA/DP1.2 / 24-bit dual channel LVDS

Audio:

Line-in/Line-out/Mic-in

Ethernet:

2x 10/100/1000 Mbps with RJ-45

USB:

7x USB Ports (6x USB 2.0

1x USB 3.0)

Serial Ports:

6x (5x RS-232

1x RS-232/422/485)

Watchdog:

Secondary I/O

LF1 Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

6.9 × 6.9 in

Weight:

0.365 kg

Form Factor:

Mini-ITX

Dimensions Misc.:

170 mm x 170 mm (6.69" x 6.69")

Power Requirements

Voltage:

12 V

Environmental

Low Operating Temperature:

0 C
High Operating Temperature:
60 C
Upper Operating Humidity:
95%

Pricing
AIMB-215D

MINI-ITX, AIMB-215D-S6B1E, J1900 QC, 6xCOM, 1xUSB3, 7xUSB2, 2xGbE, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.

\$301.00

Order:

0

Parent Product:

AIMB-215DZ-S6B1

MINI-ITX, AIMB-215D-WT, J1900 QC, 6xCOM, 1xUSB3, 7xUSB2, 2xGbE, VGA, HDMI/DP (-20-70C) ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.

\$373.00

Order:

0

Parent Product:

AIMB-215L

MINI-ITX, AIMB-215L-S6B1E, J1900 QC, 2xCOM, 1xUSB3, 3xUSB2, 1xGbE, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.

\$244.00

Order:

0

Parent Product:

AIMB-215N

MINI-ITX, AIMB-215N-S6B1E, N2930 QC, 6xCOM, 1xUSB3, 7xUSB2, 2xGbE, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.

\$318.00

Order:

0

Parent Product:

AIMB-215U

MINI-ITX, AIMB-215U-S6B1E, N2807 DC, 2xCOM, 1xUSB3, 3xUSB2, 1xGbE, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote. **

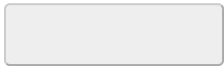
Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.

\$242.00

Order:

0

Parent Product:



Memory:

SKU: PER-RAM-00161

PER-RAM-00161

\$30.00

Product State:

Testing

Variations:

4GB DDR3L 1.35V SODIMM

Status: Active

Call for Price:

SKU: PER-RAM-00165

PER-RAM-00165

\$35.00

Product State:

Final

Variations:

2GB DDR3L 1.35V SODIMM (Industrial Temp -40 to 85C)

Status: Active

Call for Price:

Displays:

PER-LCD-00200-R

LCD MOD CHAR 2X24 WH TRANSFL

\$27.00

Source URL: <https://www.emacinc.com/content/aimb-215-mini-itx>