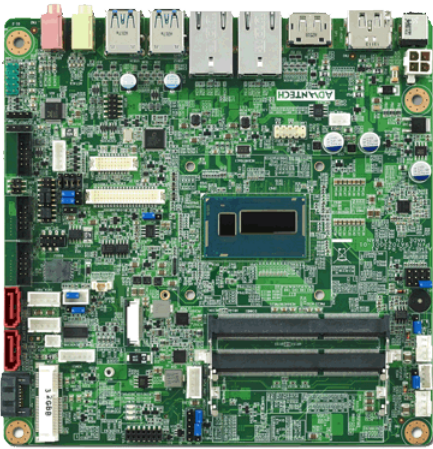


AIMB-230 Mini ITX



Intel® Core™ i3-4010U, i5-4300U, i7-4650U or Intel® Celeron 2980U Dual core processor

Up to 16 GB DDR3L 1600 MHz SDRAM

2x RS232/485/422 Serial Ports

3x SATA III, 1x mSATA

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

eDP/LVDS, DP/HDMI, and DP++

1x Full-sized Mini-PCIE, 1x Half-sized Mini-PCIE

4x USB 3.0, 2x USB 2.0

Controller Intel® HD Graphics 5000 Supports DirectX 11.1, OpenGL 4.0, OpenCL 1.3, Full AVC, VC1, MPEG2 H/W encoder

LVDS+Inverter / eDP Supports dual channel 48-bit up to 1920 x 1200, co-lay eDP (by BOM option)

DP/HDMI 1, Supports HDMI 1.4 for HD Video playback

Max resolution up to 3200 x 2000 at 60 Hz on DisplayPort (GT2), 4096 x 2304 at 24 Hz on HDMI (GT2)

DP++ 1, DP++ connector, available with DP-to-DVI (HDMI) cable (no transmitter) to connector to normal LCD monitor

Dual Display HDMI+LVDS (eDP), HDMI+DP++, LVDS(eDP)+DP++

Tri Display HDMI + HDMI + DP, DP + DP + eDP, HDMI + DP + eDP

Dual Display Mode Extended Mode, Clone Mode

Watchdog Timer

8-bit GPIO with System Reset

12 V Power Consumption

2.66A/2.53A Current Consumption

Operating temperature: 0 ~ 60° C (32 ~ 140° F, Depending on CPU speed and cooler solution)

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

Humidity: 5 ~ 95% non-condensing

Power supply voltage: +12 V

AIMB-230 is designed with the Intel® HASWELL ULT Dual Core for industrial applications that require both performance computing and enhanced power management capabilities. The motherboard supports Intel HASWELL ULT Dual Core i5 1.9 GHz / Celeron 1.6GHz processor up to 3 MB L3 cache and DDR3L SO-DIMM 1600 up to 16GB. A rich I/O connectivity of 2 serial ports, 4 USB 3.0, 2 USB 2.0, dual COM and 3 SATA III ports.

Specifications

SLC type.

Mini ITX

Processor

Processor.

Intel® Core™ i3/i5/i7/Celeron 2980U processor (Dual core) 15W TDP / BGA 1168 (MCP) 22nm

Clock Speed:

3.3 GHz

Real Time Clock:

Memory

BIOS/ Bootloader:

AMI EFI 128 Mbit SPI BIOS

Primary I/O

GPIO.

8-bit GPIO

Disk Interface:

3x SATA III / 1x mSATA

Video Out:

LVDS Through Chrontel CH7511 to support LVDS Support single channel 24- bit/ dual channel 48-bit LVDS

Max 1920 x 1200 @ 60 Hz

Audio:

2x Single Audio Jack for Line-Out (Green)

Mic-In (Red)

Ethernet:

2x 10/100/1000 Mbps Ethernet Ports via PCI Express

USB:

4x USB 3.0 / 2x USB 2.0 Ports

Serial Ports:

2x RS232/485/422

Watchdog:

Secondary I/O

LAN Port

Keypad:

PS/2:

Analog on

LAN

D/A:

Dimensions

Dimensions:

6.69 × 6.69 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

Typical Current:

2.66 A

Power Misc.:

i5-4300, 3.5" SATA HDD x 1+ 8G RAM x 1 12V 2.66A

Celeron-2980U, 3.5" SATA HDD x 1+ 8G RAM x 1 12V 2.53A

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

95%

Pricing

AIMB-230G2-U0A1E

MINI-ITX, AIMB-230G2-U0, 2390U, 2xCOM, 4xUSB3, 2xUSB2, 2xGbE, HDMI/DP, DP++

\$342.00

Order:

0

Parent Product:

AIMB-230G2-U5A1E

MINI-ITX, AIMB-230G2-U5, I5-4300U, 2xCOM, 4xUSB3, 2xUSB2, 2xGbE, HDMI/DP, DP++

\$889.00

Order:

0

Parent Product:

AIMB-230G2-U7A1E

MINI-ITX, AIMB-230G2-U7, I7-4650U, 2xCOM, 4xUSB3, 2xUSB2, 2xGbE, HDMI/DP, DP++

\$1,265.00

Order:

0

Parent Product:

AIMB-230G2Z-U3A1E

MINI-ITX, AIMB-230G2Z-U3, i3-4010U, 2xCOM, 4xUSB3, 2xUSB2, 2xGbE, HDMI/DP, DP++ (-20*C to 70*C)

\$691.00

Order:

0

Parent Product:

AIMB-230G2-U3A1E

MINI-ITX, AIMB-230G2-U3, i3-4010U, 2xCOM, 4xUSB3, 2xUSB2, 2xGbE, HDMI/DP, DP++

\$573.00

Order:

0

Parent Product:

Power Supply:

PER-PWR-00088

1757003064 Adapter DC 12V @ 7A for 84W, AC: 100-240VAC, 1.3A 50-60Hz

\$40.00

CAB-80-001-1

CABLE POWER 110V AC GND OUTLET

\$3.00

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:

Source URL: <https://www.emacinc.com/content/aimb-230-mini-itx-1>