



Intel AIMB-233 Specifications

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Intel AIMB-233 Specifications



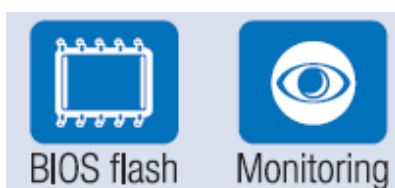
Features

- Supports Intel® Core™ core i7-8665UE /i5-8365UE/i3-8145UE/Celereon 4305UE, 15W TDP, BGA 1528 16nm Processor
- Two 260-pin SO-DIMM up to 64GB DDR4 2400 MHz SDRAM
- Multiple display I/O supports versatile Tri display functions for HDMI, Type C Alt., LVDS (eDP)
- Support PCIe x1, 2 M.2 (1 F/S miniPCIe), 4 USB 3.1, 2 USB 3.0 and 2 SATA III
- Support wide range 12V~24V DC Input and low profile height
- Support wide temperature
- Supports WISE-PasS/RMM and Embedded Software APIs

Software APIs:



Utilities:



Specifications

Processor System	CPU Core Number Max Speed TDP Chipset BIOS	i7-8665UE 4 1.7G 15W (w/ Cannon Lake PCH-LP) /ME 12 AMI uEFI 32 MB	i5-8365UE 4 1.6G 15W	i3-8145UE 2 2.2G 15W	Celeron 4305UE 2 2G 15W
Expansion Slot	Mini-PCle	1 F/S miniPCle slot with SIM card holder, M.2 E key_2230 (colay 1 F/S miniPCle slot w/SIM card holder, optional), M.2 M key_2242&2280, PCIe1(Gen 3)			
Memory	Technology Max. Capacity Socket	Dual Channel DDR4 2400 MHz SDRAM 64GB (up to 32GB per SO-DIMM) 2 x 260 PIN DDR4 SO-DIMM (Non-ECC)			
Graphics	Controller LVDS HDMI Type C Alt. Dual Display Tri Display	Support OpenGL 4.5, DirectX 12, OpenCL2.1. Supports dual channel 48-bit up to 1920 x 1200 Yes, supports max. resolution 4096 x 2160 @ 60 Hz Yes, supports max. resolution 4096 x 2304 @ 60Hz, 24bpp Type C Alt.+ HDMI, Type C Alt.+LVDS (or eDP), HDMI+LVDS (or eDP) HDMI+Type C Alt.+LVDS (or eDP)			

Ethernet	Interface Controller Connector	10/100/1000 Mbps LAN1: Intel Clarkville i219LM GbE PHY LAN2: Intel Springville i211 GbE RJ-45 x 2
SATA	Max Data Transfer Rate Channel	600 MB/s (SATA 3.0) 2 (SATA III)
Rear I/O	HDMI Type C Alt. Ethernet USB Audio DC Jack	1 (HDMI 2.0a) 1 2 4 x USB 3.1 Gen2 (1 x Type C, 3 x Type A), USB type C support by B OM optional 2 (Mic-in, Line-out) 1, 12~24V with phoenix connector.

Internal Connector	USB LVDS/inverter eDP Serial IDE SATA SATA Power M.2 Mini-PCle IrDA CPU/System/Chassis Fan Connector Power Connector GPIO	2 (USB 2.0), 2 (USB 3.0) 1 1, by BOM optional 6 COM (5 x RS-232, 1 x RS-232/422/485 (RS-422/485 support via BOM option) and supports hardware auto flow control) – 2 (SATA III) 2 2, 1 x E key for WIFI/ BT w/ CNVi (compatible with F/S MiniPCle), type:2230mm 1 x M key for NVMe storage, type:242mm & 2280mm 1 (F/S, option) – 1 CPU fan with 4pin header 2 System fan with 4pin header Phoenix connector for 12~24V DC IN 8-bit
Watchdog Timer	Output Interval	System reset Programmable 1 ~ 255 sec/min
Power Requirements	Input power Power Consumption (Max, test in HCT)	12 ~ 24V DC Input Typical: 26.74W @12V, 29.04W @24V Boost: 63.28W @12V, 64.73W @24V (intel i7-8665UE/DDR4 2133MHz 16GB x2)

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1700018785	SATA Power cable	2
1700022363-01	1-to-1 serial port cable kit, 17cm	2
1700029538-01	1-to -4 serial port cable, 35cm	1
2046023300	Startup manual	1
1960062823N011	Fanless Heat Sink	1
1960095272T001	IO port bracket	1

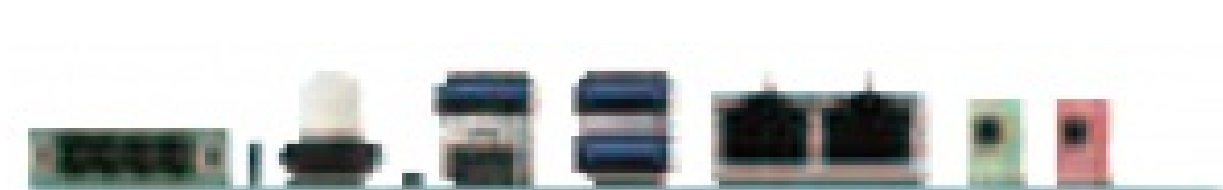
Optional Accessories

Part Number	Description
96PSA-A120W12P4	ADP A/D 100-240V 120W 12V C14 TERMINAL BLOCK 4P
96PSA-A220W24P4-1	ADP A/D 100-240V 220W 24V C14 TERMINAL BLOCK 4P
1700025084-01	ATX 5Vsb 3pin power cable
1702002600	Power cable 3-pin 180 cm,USA type
1702002605	Power cable 3-pin 180 cm, Europe type
1702031801	Power cable 3-pin 180 cm, UK type
1700000237	Power cable 3-pin PSE Mark 183 cm
1960084865N001	Fan Cooler
1700029719-01	USB3.0 cable
1700024790-01	USB 2.0 cable

Embedded OS/API

OS/API	Part No.	Description
Windows 10	20706WX9ES0097	img W10 19EL AIMB-233 64b 1809 ENU
Windows 10	20706WX9HS0083	img W10 19HL AIMB-233 64b 1809 ENU
Windows 10	20706WX9VS0087	img W10 19VL AIMB-233 64b 1809 ENU

Rear I/O



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References

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