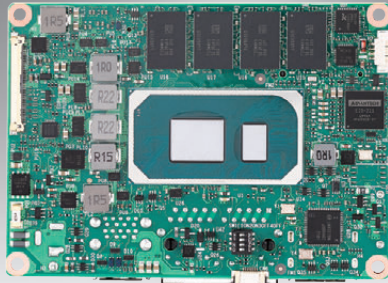


MIO-2375

11th Gen. Intel® Core™ i7/i5/i3/Celeron U-series Pico-ITX SBC

NEW



Features

- 11th Gen. Intel® Core™ Processor with Quad/Dual Cores, TDP 15W
- On-board LPDDR4x-4267 up to 32G with IB ECC for Industrial Sku
- Dual independent display: eDP/MIPI-DSI, DP up to 8K
- 2 GbE, 2 USB 3.2, COM Port, SMBus/I2C
- Expansion: M.2 E-Key, M.2 B-Key/M-Key NVMe x2
- Supports iManager & Software APIs, WISE-DeviceOn, and Edge AI Suite

Software APIs:



ubuntu yocto Windows 10 iManager WISE-DeviceOn CE FCC

Specifications

Platform	Processor	i7-1185G7E	i7-1185GRE	i5-1145G7E	i3-1115G4E	Celeron® 6305E
	Max. Frequency	4.40 GHz	4.40 GHz	4.10 GHz	3.90 GHz	N/A
Memory	Base Frequency	1.80 GHz	1.80 GHz	1.50 GHz	2.20 GHz	1.80GHz
	Core/Tread	4/8	4/8	4/8	2/4	2/2
Graphics	LLC	12MB	12MB	8MB	6MB	4MB
	CPU TDP	15W	15W	15W	15W	15W
Display I/F	Chipset	Intel 300 Series Chipset (SoC Integrated)				
	BIOS	AMI EFI 256Mbit				
Ethernet	Technology	LPDDR4x-4267	LPDDR4x-4267	LPDDR4x-4267	LPDDR4x-3733	LPDDR4x-3733
	Max. Capacity	Up to 32GB				
External I/O	Channel/Socket	Single or Dual Channels / Onboard				
	ECC Support	No	Yes	No	No	No
Expansion	Controller	Integrated Intel® Iris® Xe Graphics				
	Max. Frequency	1.35 GHz	1.35 GHz	1.30 GHz	Intel® UHD Graphics 1.25 GHz	Intel® UHD Graphics 1.25 GHz
Board Feature	3D/HW Acceleration	DX12, OGL4.0, OCL1.2, HW Encode: H.265/HEVC, H.264, MPEG2, HW Decode: H.264				
	LCD	eDP1.4 HBR3, up to 4096x2304x36bpp@60Hz; with DSC 7680x4320x30bpp@60 Hz				
Internal I/O	HDMI/DP	Optional MIPI-DSI 2.5GHz, up to 3200x2000x24bpp@60Hz; with DSC 5120x3200x24bpp@60 Hz				
	Multiple Display	1 x DP1.4 (DP++), up to 4096x2304x36bpp@60Hz; with DSC 7680x4320x30bpp@60 Hz				
Power	Dual simultaneous displays by eDP/MIPI-DSI + DP					
	Controller	LAN1: Intel 219LM, LAN2: Intel 210AT/IT				
Environment	Speed	10/100/1000 Mbps				
	Ethernet	2 x RJ-45				
Certification	VGA/HDMI/DP	-/-/1				
	USB3.2/USB2.0	2/-				
Mechanical	Power DC-Jack	Optional				
	SATA	1 x SATA GenIII 6.0Gbps				
Expansion	USB2.0	2				
	Serial Bus	I2C (default), SMBus*(optional)				
Power	COM Port	1 x RS-232/422/485, 1 x RS-232				
	GPIO	4-bit general purpose input output I/O				
Board Feature	Audio	Realtek ALC888s, Line-in/Line-out/MIC				
	Inverter	12V				
Expansion	Fan	1 smart fan 4-wire @ 12V				
	Front Panel Control	Power-on, Reset, Buzzer, SATA LED, CaseOpen				
Power	Watchdog Timer	65536 level, 0-65535 sec				
	TPM	TPM2.0				
Expansion	iManager 3.0	SW API for Hardware Monitor, Smart Fan Control, Brightness Control, I2C, GPIO, WDT				
	M.2 E-Key	1 x E-Key 2230 (PCIe x1, USB2.0)				
Power	M.2 B-Key/ M.2 M-Key	1 x B-Key 3042/2242 (SATA x1, USB2.0 x1) w/ Nano-SIM				
		*Optional 1 x M-Key 2242 (PCIe x2 NVMe)				
Power	Supply Voltage	Vin: DC 12V ± 10%; RTC Battery: Lithium 3V/210mAH				
	Connector	ATX 2pin 180D, optional DC-Jack				
Environment	Power Management	AT, ATX				
	Max. Consumption	61.608W	59.496W	43.704W	32.76W	
Environment	Idle Consumption	17.368W	8.820W	16.872W	13.991W	
	Temperature	Operating: Standard: 0 ~ 60 °C (32 ~ 140 °F) Operating: Extend: -40 ~ 85 °C (-40 ~ 185 °F) for Industrial Sku Storage: -40 ~ 85 °C (-40 ~ 185 °F)				
Certification	Humidity	Operating: 40 °C @ 95% relative humidity, non-condensing Storage: 60 °C @ 95%relative humidity, non-condensing				
	Vibration Resistance	3.5 Grms				
Mechanical	EMC	CE, FCC Class B				
	Dimensions	100 x 72 mm (3.9" x 2.8")				
Mechanical	Net Weight	80g				

*Note: Support by request

Vertrieb durch



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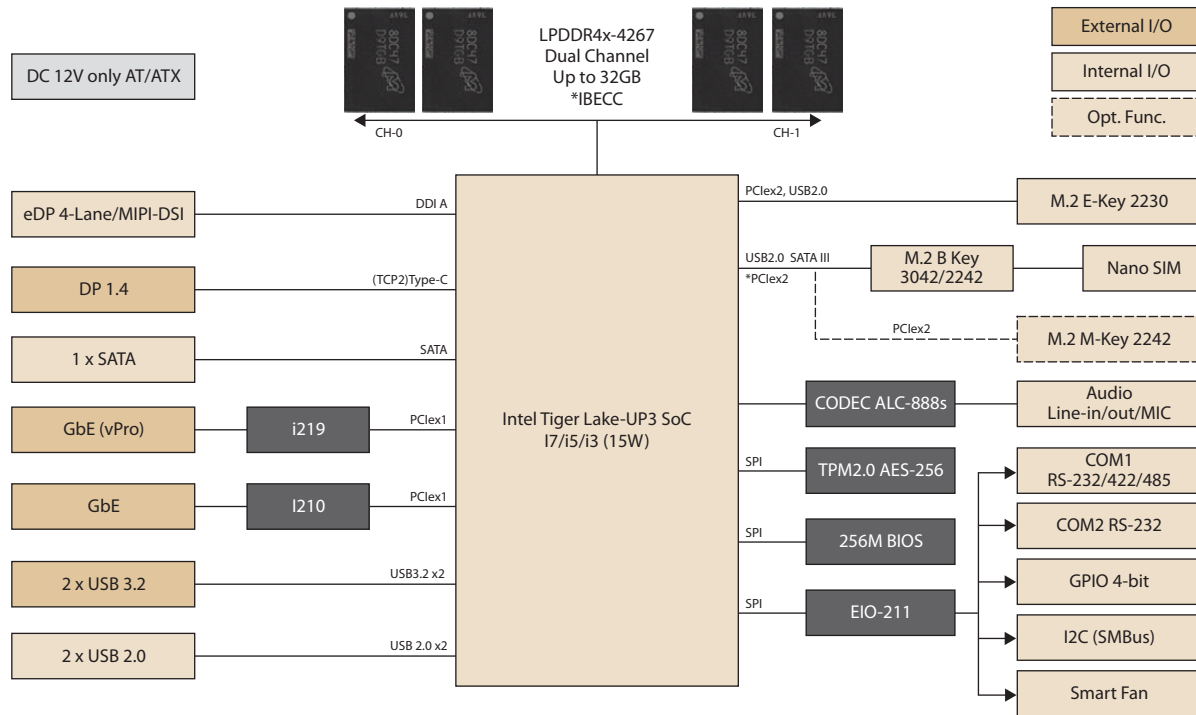
All product specifications are subject to change without notice.



ADVANTECH Automation
Premier Partner

Last updated: 31-Aug-2023

Block Diagram



Ordering Information

Part No.	CPU	Max. Frequency	Core	Memory	Sim Holder	TPM	Thermal Solution	Operating Temperature
MIO-2375C7P-Q4A1	i7-1185G7E	4.40 GHz	4	16GB	Yes	Yes	Active	0 ~ 60 °C
MIO-2375C5P-Q1A1	i5-1145G7E	4.10 GHz	4	16GB	Yes	Yes	Active	0 ~ 60 °C
MIO-2375C3P-P9A1	i3-1115G4E	3.90 GHz	2	8GB	Yes	Yes	Active	0 ~ 60 °C
MIO-2375C7PX-Q4A1	i7-1185GRE	4.40 GHz	4	16GB	Yes	Yes	Active	-40 ~ 85 °C
MIO-2375CRP-S8A1	Celeron 6305E	NA	2	8GB	Yes	Yes	Passive	0 ~ 60 °C

Packing List

Part No.	Description	Quantity
	MIO-2375 SBC	
	Startup Manual	
1700006291	SATA cable 30cm	1
1700027546-01	A CABLE SATA Power 15P/1*4P-2.5 15cm	1
1700030406-01	M Cable 2*5P-2.0/USB-A 4P(F)*2 20cm	1
1700030404-01	RS-232 9P(M)/1*10P-1.25 20cm	2
1700019584-01	A Cable 2*5P-2.0/Audio JACK*3 20cm	1
1700019705-01	AT power cable 12 cm	1
1970004956T001	MIO-2375 Cooler	1

Rear I/O View



Optional Accessories

Part No.	Description
1970004968N001	MIO-2375 Heatspreader

Embedded OS/API

Embedded OS/API	Part No.	Description
Windows 10	20706WX9HM0020	64-bit (UEFI Mode Only)
Ubuntu 20.04	20706U20DS0013	Ubuntu Desktop 20.04 LTS 64-bit Image & License Sticker for MIO-2375
Yocto	Support by Request	Yocto BSP and Test Image
Software API	Website Download	SUSI v4.0

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