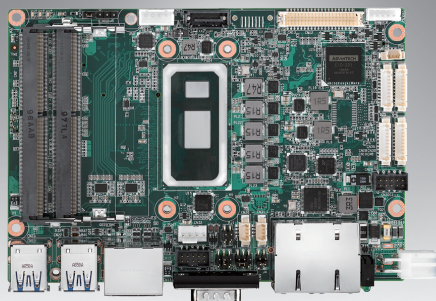


MI0-5373

8th Gen. Intel® Core™ i7/i5/i3/Celeron*
U-Series 3.5" SBC w/ MI0e

NEW



Windows 10 WISE-PaaS/ DeviceOn iManager CE FCC

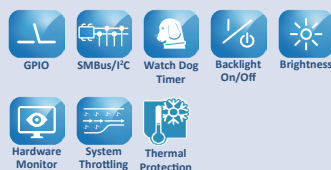
Specifications

Platform	Processor	i7-8665UE	i5-8365UE	i3-8145UE	Celeron® 4305UE (by request)
	Max. Frequency	4.40 GHz	4.10 GHz	3.90 GHz	-
	Base Frequency	1.70 GHz	1.60 GHz	2.20 GHz	2.00 GHz
	Core/Tread	4/8	4/8	2/4	2/2
	LLC	8MB	6MB	2MB	2MB
	CPU TDP	15W	15W	15W	15W
	Chipset	Intel® 300 Series Chipset (SoC Integrated)			
	BIOS	AMI UEFI 256Mbit			
Memory	Technology	DDR4-2400	DDR4-2400	DDR4-2400	DDR4-2133
	Max. Capacity	32GB			
	Channel/Socket	Dual Channel/Dual Socket DDR4			
	ECC Support	N/A			
Graphics	Controller	Intel UHD Gfx 620	Intel UHD Gfx 620	Intel UHD Gfx 620	Intel UHD Gfx 610
	Max. Frequency	1.15 GHz	1.05 GHz	1.00GHz	1.00 GHz
	Base Frequency	300 MHz	300 MHz	300 MHz	300 MHz
	3D/HW Acceleration	3D Acceleration: Direct3D 2015, OpenGL4.5, OpenCL2.1 HW Decode: HEVC/H.265 (8/10-bit), AVC/H.264, VP9, VP8, WMV9, MPEG2 HW Encode: HEVC/H.264, AVC/H.264, VP9, VP8, MPEG2			
Display I/F	LCD	LVDS Dual Channel 48-bit up to 1920 x 1200 Option eDP1.4 up to 4096x2304@60Hz			
	HDMI/DP	1 Port HDMI1.4 up to 4096x2160@30/24Hz 1 Port DP1.2 up to 4096x2306@60Hz			
	Multiple Display	Triple simultaneous displays by LVDS/eDP+HDMI+DP			
Ethernet	Controller	LAN1: Intel i219, LAN2: Intel i210			
	Speed	10/100/1000 Mbps			
External I/O	Ethernet	2 x RJ-45			
	VGA/HDMI/DP	1 x HDMI, 1 x DP			
	USB3.1	4			
	COM Port	1 x RS-232/422/485			
	LED	Power status, HDD R/W			
	Power DC-Jack	1*(Optional)			
Internal I/O	SATA	1, up to 6Gb/s (600MB/s); Support 2 SATA by optional			
	USB2.0	2			
	Serial Bus	SMBus, I ² C (100K/400K)			
	COM Port	1 x RS-232/422/485 2 x GPIO 8b (default) or 2 x RS-232 (*by request)			
	GPIO	16-bit general purpose input output I/O			
	Audio	Realtek ALC-888S, Line-in/Line-out/MIC			
	Inverter	12V/5V/3.3V selectable			
	LPC/SPI Bus	LPC			
	CAN Bus	1 x CAN Bus 2.0			
	Fan	4-wire smart fan			
	Front Panel Control	Power-on			
	Watchdog Timer	65536 level, 0~65535 sec			
	TPM	TPM2.0 (SLB9670XQ2.0)			
	iManager 3.0	Yes			
Storage	eMMC	eMMC5.1 default 32GB, up to 64GB			
Expansion	M.2	1 x M.2 E-Key for M.2 2230 A-E Key module (PCIe x1, USB 2.0) 1 x M.2 B-Key for M.2 2280 B-M Key SSD module (SATA or NVMe/PCIe x2, auto detect), or M.2 3042 B-Key LTE module (USB 2.0, w/Bracket) ; BOM option to 1 x M.2 M-Key for M.2 2280 M-Key NVMe SSD (PCIe x4)			
	MI/O Extension	4 PCIe1 x1 (x1/x2/x4), USB2.0, LPC, SMBus, Line-out, 12V/5V Power supply			
Power	Supply Voltage	Vin: 12V-24V +/- 10%; RTC Battery: Lithium 3V/ 210mAh			
	Connector	ATX 2x2-pin, optional: DC-Jack*			
	Power Management	AT(default), ATX			

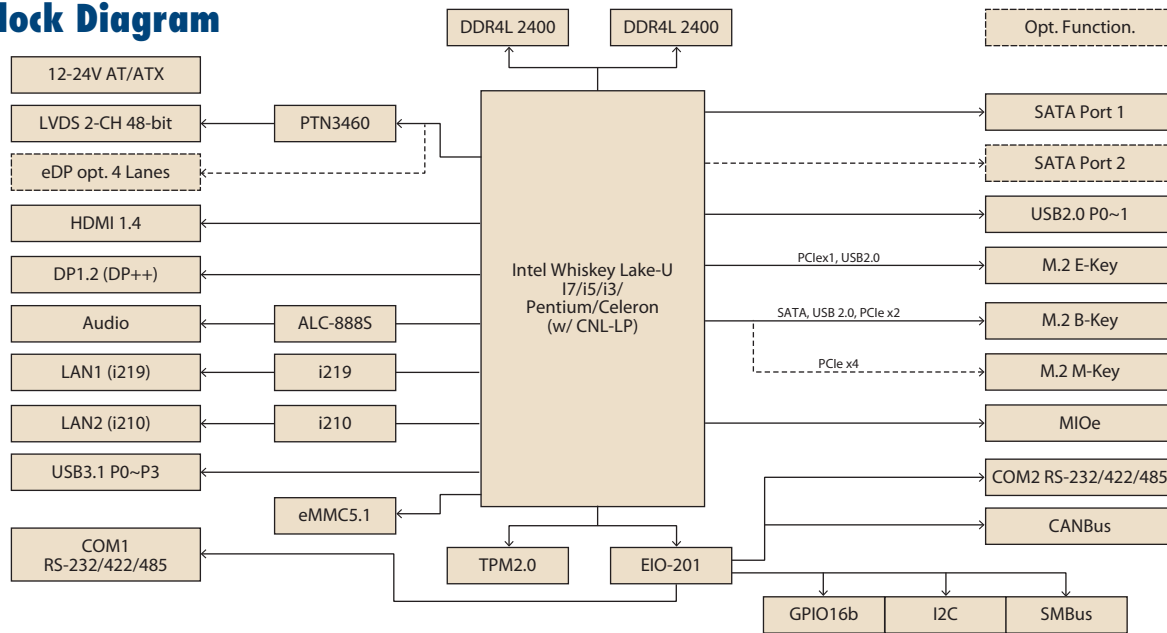
Features

- 8th Gen. Intel® Core™ Processor with Quad/Dual Cores, TDP 15W
- Dual Channel DDR4-2400 up to 32GB, onboard eMMC up to 64GB
- Triple simultaneous displays by 48-bit LVDS/eDP+HDMI+DP
- 2 GbE, 4 USB3.1, CAN Bus, M.2 B-Key 2280 supports NVMe, DC-in 12-24V
- iManager & SW APIs, WISE-PaaS/DeviceOn

Software APIs:



Block Diagram



Specifications (Cont.)

Power	Max. Consumption	65.59W (12V) / 74.06W (24V)	71.28W (12V) / 74.04W (24V)	35.70W (12V) / 38.68W (24V)	TBD
	Idle Consumption	6.68W (12V) / 8.71W (24V)	7.55W (12V) / 7.55W (24V)	7.03W (12V) / 8.18W (24V)	TBD
Environment	Temperature	Operating: Standard: 0 ~ 60 °C (32 ~ 140 °F), Extend: -40 ~ 85 °C (-40 ~ 185 °F) Storage: -40 ~ 85 °C (-40 ~ 185 °F)			
	Humidity	Operating: 40 °C @ 95% relative humidity, non-condensing Storage: 60 °C @ 95% relative humidity, non-condensing			
	Vibration Resistance	3.5Grms			
Certification	EMC	CE, FCC Class B			
Mechanical	Dimensions	146 x 102 mm (5.7" x 4")			

Ordering Information

Part Number	CPU	Max. Frequency	Core	eMMC	CANBus	TPM2.0	MIOe	Cable Kit	Thermal Solution	Operating Temp
MIO-5373U-U7A1	i7-8665UE	4.4 GHz	4	32G	Y	Y	Y	Y	Passive	0 ~ 60 °C
MIO-5373U-U6A1	i5-8365UE	4.1 GHz	4	32G	Y	Y	Y	Y	Passive	0 ~ 60 °C
MIO-5373U-U3A1	i3-8145UE	3.9 GHz	2	32G	Y	Y	Y	Y	Passive	0 ~ 60 °C
MIO-5373UL-U6A1	i5-8365UE	4.1 GHz	4	N	N	Y	N	N	Passive	0 ~ 60 °C
MIO-5373UL-U3A1	i3-8145UE	3.9 GHz	2	N	N	Y	N	N	Passive	0 ~ 60 °C
MIO-5373UX-U7A1	i7-8665UE	4.4 GHz	4	32G	Y	Y	Y	Y	Passive	-40 ~ 85 °C
MIO-5373UX-U6A1	i5-8365UE	4.1 GHz	4	32G	Y	Y	Y	Y	Passive	-40 ~ 85 °C

*Default BIOS supports 64 bits OS installation, BIOS for 32 bits OS installation is supported by project.

Packing List

Part No.	Description	Quantity
	MIO-5373 SBC	1
	Startup Manual	1
1700006291	SATA cable 30cm	1
1700018785	A CABLE SATA 15P/1*4P-2.5 35cm	1
1700019584	A Cable 2*5P-2.0/Audio JACK*3 20cm	1
1700030404-01	RS-232 9P(M)/1*10P-1.25 20cm MIO-5373	1
1700030406-01	M Cable 2*5P-2.0/USB-A 4P(F)*2 20cm	1
1960091427N001	MIO-5373 heatsink for 0 ~ 60 °C	1
	mini Jumper pack	1
1960091427N011	MIO-5373 heatsink for -40 ~ 85 °C	1

*MIO-5373UL series do not include cable kits in packing list.

Optional Accessories

Part No.	Description
1970004423N000	Heat spreader for single layer display HDMI connector (Optional)
1960090264N000	Bracket for M.2 2280 to M.2 3042
1970004423N010	Heat spreader for dual layer display HDMI + DP connector

Embedded OS/API

Embedded OS/API	Part No.	Description
WIN10	20706WX9HS0030	64-bit (UEFI mode only)
Software API	Download by website	SUSI V4.0

Rear I/O View



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