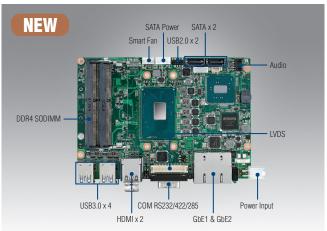
MIO-5391

7th Gen Intel Core Mobile Processors, Xeon, i7, i5, i3 3.5" SBC w/ MI0e



Features

- 7th Gen Intel Core i7/i5/i3 + PCH QM175 & Xeon + PCH CM238
- Dual channel DDR4 2400, Max 32GB
- 1 Intel i210 GbE & 1 Intel i219 GbE support iAMT, rich I/O: 2COM, SATA, USB3.0, SMBus/I2C,16 bit GPIO full-size Mini PCIe or mSATA /M.2 E Key support NVME, 12V Power input
- Full-size Mini PCle or mSATA /M.2 E Key
- Support NVME (optional)
- Supports iManager, WISE-PaaS/RMM, emb. SW API

Software APIs:

Utilities:



Monitoring













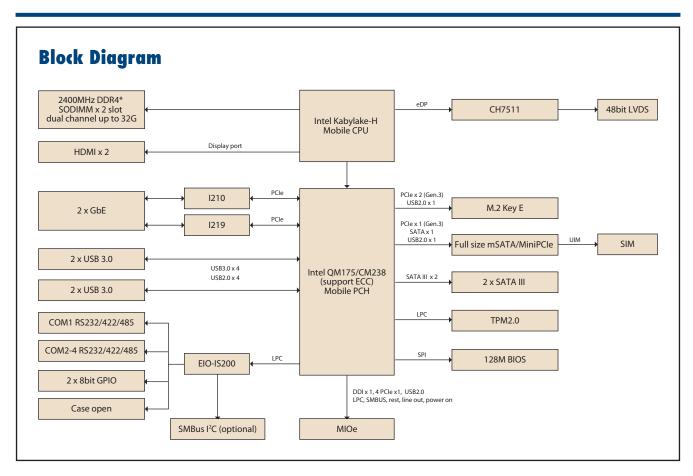




WISE-PaaS/RMM ÍManager C € FCC

Specifications

	Processor	i7-7820EQ	i5-7442EQ	i3-7102E	E3-1505MV6		
	Max. Frequency	3.7 GHz	2.9 GHz	-	4.0 GHz		
	Base Frequency	3.0 GHz	2.1 GHz	2.1 GHz	3.0 GHz		
	Core/Tread	4	4	2	4		
atform	LLC	8MB	6MB	3MB	8MB		
	CPU TDP	45W	25W	25W	45W		
	Chipset	PCH QM175			CM238		
	BIOS	AMI UEFI 128Mbit					
	Technology	DDR4 up to 2400MHz					
	Max. Capacity	Up to 32GB					
emory	Channel/Socket	Dual Channel 260P SO-DIN	IM (1 DIMM per Channel)				
	ECC Support	ECC is supported with Xeor					
	Controller	Intel Gen 9 low power graph					
	Max. Frequency	1GHz	103				
raphics	Base Frequency	350MHz/					
	Graphics Memory	Intel DMVT5.0, share memory up to 1024MB					
	3D/HW Acceleration	HW Codec: H.265/HEVC 8bit/10bit encode/decode; VP8 8bit encode/decode, VP9 10bit decode; MPEG2; JPEG; VC1/WMV9. Direct3D 2015/11.2/11.1/10/9; OpenGL5.0; OpenCL 2.0/1.2/1.0					
	LVDS	48-bit LVDS up to WUXGA Supports 3.3/5/12V for VDD					
lisplay I/F	HDMI		Supports 2 ports HDMI 1.4 for HD Video playback Max resolution up to 4096 x 2304 @ 30Hz				
	Mulit-Display		- LVDS with each display combinations				
	Controller	LAN1: Intel 219LM. LAN2: I					
hernet	Speed	10/100/1000 Mbps	110121011				
	Ethernet	2 x RJ-45					
	VGA/HDMI/DP	-/2/-					
dernal I/O	USB3.0/USB2.0	4/-					
domai i/O	COM Port	1 x RS-232/422/485					
	LED	Power status, HDD R/W					
	Power DC-Jack	Optional					
	SATA	2 x SATA GenIII 6.0Gbps					
	USB2.0	2					
	Serial Bus	SMBus default, I2C optiona	1				
	COM Port	3 x RS-232/422/485					
	GPI0	16-bit general purpose inpu					
ternal I/O	Audio	Realtek ALC888S, High Def	nition Audio (HD), Line-in, Line out, Mic-i	n			
	Invertor	3.3/5/12V for VDD power, 5	/12V for inverter				
	LPC/SPI Bus						
	CAN Bus	_					
	Fan	1 x Smart Fan					
	Front Panel Control	Power-on, Reset, Buzzer,					
	Watchdog Timer	65536 level, 0~65535 sec					
oard Feature	TPM	TPM2.0 (Infineon SLB9665					
	iManager 3.0	yes					
	SATA	2, up to 6Gb/s (600 MB/s)					
torage	mSATA	1 x Full-size					
	NVME*	1, dimension: 2230; PCIe*2					
	M.2	E-Key (PCle x1, USB2.0)					
voonsion	mPCIe/mSATA	1 x full size mSATA with Sin	holder				
xpansion							
	MI/O Extension		LPC, SMBUS, rest, Line out, Power on				
	Supply Voltage		Battery: Lithium 3V/210mAH				
	Connector		OC-Jack or ATX 2x2 pin 180D				
Power	Power Management	AT, ATX					
	Max. Consumption	TBD	TBD	TBD	TBD		
	Idle Consumption	TBD	TBD	TBD	TBD		
	Temperature		° C (32 ~ 140° F), Extend: -40 ~ 85° C (-4				
nuironment							
nvironment	Humidity	Uperating: 40° C @ 95% re	lative humidity, non-condensing				
			ive humidity, non-condensing				
	Vibration Resistance	3.5 Grms					
ertification	EMC	CE, FCC					
Jitillouti011	Safety	-					



Ordering Information

Part No.	CPU	Max. Frequency	Core	DDR4 Memory	Thermal Solution	Operating Temperature
MIO-5391E4M-H0A1	E3-1505MV6	4.0GHz	4	ECC support	Active	0 ~ 60 °C
MIO-5391C7-H0A1	i7-7820EQ	3.7GHz	4	non-ECC	Active	0 ~ 60 °C
MIO-5391C5-U1A1	i5-7442EQ	2.9GHz	4	non-ECC	Passive	0 ~ 60 °C
MIO-5391C3-U1A1	i3-7102E	2.1GHz	2	non-ECC	Passive	0 ~ 60 °C

Packing List

Part No.	Description	Quantity
	MIO-5391 SBC	1
2006539100	Startup Manual	1
1700006291	M Cable SATA 7P/SATA 7P 30cm C=R 180/90	1
1700018785	SATA 35cm power cable	1
1700019414	A Cable D-SUB 9P(M)/2*5P-2.0 30cm for FWA-5442	2
1700019584	Audio Cable 2*5P-2.0/JACK*3 20cm	1
9689000002	mini Jumper pack	1
1960089060T001	Cooler	1
1960089142T001	Heatsink	1

Optional Accessories

Part No.	Description
TBD	Heat spreader (16.7mm height)
1757003934	Adapter 100-240V 60W 12V 5A W/O PFC
1703100264	Internal 1 port USB cable 22.5cm

Embedded OS/API

Embedded OS/API	Part No.	Description
WIN10	TBD	
Software API		iManager 3.0

Rear I/O View

