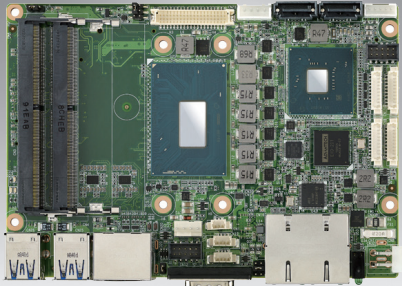


MIO-5393

9th/8th Gen. Intel® Xeon®/Core™ Processor, 3.5" SBC w/ MIOe

NEW



Specifications

Features

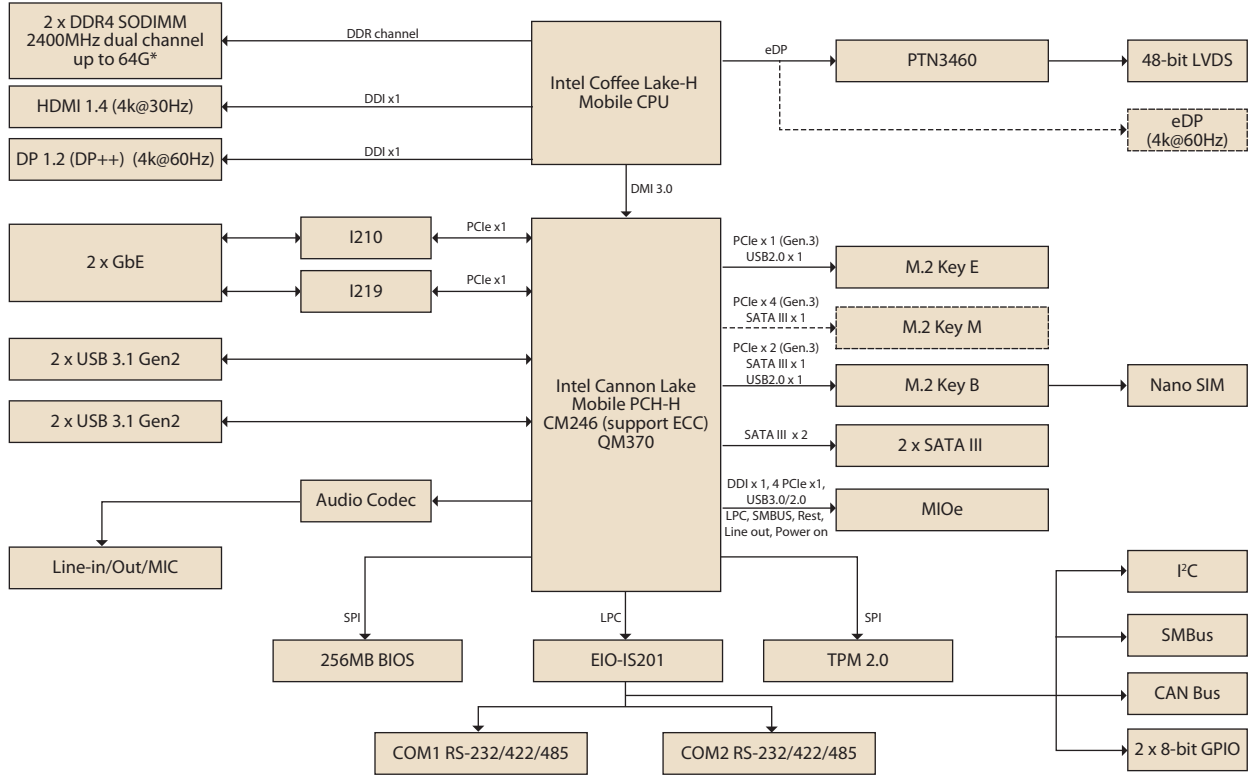
- 9th/8th Gen. Intel® Xeon®/Core™ Processor, up to 6 cores, and TDP 45W/25W
- Dual channel DDR4-2400, up to 64GB*, ECC for Xeon SKU
- Triple simultaneous displays with 48-bit LVDS+HDMI+DP
- USB 3.1 Gen2 (10 Gbps), TPM 2.0 & NVMe/PCIe Gen3x4 SSD
- Dual GbE, SATAIII, RS-232/422/485, CANBus, SMBus, I2C
- M.2 B-Key 2280/3042, (optional M-Key 2280) & M.2 E-Key 2230
- Supports iManager, SUSI APIs, WISE-DeviceOn and Edge AI Suite

Software APIs:



Platform	Processor	E-2276ME	I7-9850HE	I7-9850HL	I5-8400H
	Max. Frequency	4.5 GHz	4.4 GHz	4.1 GHz	4.2 GHz
	Base Frequency	2.8 GHz	2.7 GHz	1.9 GHz	2.5 GHz
	Core/Tread	6C/12T	6C/12T	6C/12T	4C/8T
	Last Level Cache	12MB	9MB	9MB	8MB
	CPU TDP	45W	45W	25W	45W
	Chipset	CM246	QM370	QM370	QM370
Memory	BIOS	AMI UEFI 256Mbit			
	Technology	DDR4-2400			
	Max. Capacity	Up to 64GB *Support with selected memory module			
	Channel/Socket	Dual Channel 260P SO-DIMM (1 DIMM per Channel)			
Graphics	ECC Support	Yes	No	No	No
	Controller	Intel Gen 9 low power graphics			
	Max. Frequency	1150 MHz	1150 MHz	1150 MHz	1100 MHz
	Base Frequency	350 MHz	350 MHz	350 MHz	350 MHz
Display I/F	3D/HW Acceleration	3D: DX 2015/11.2/11.1/10/9 ; OpenGL4.5; OpenCL 2.0/1.2/1.0 HW Decode: AVC/H264, VC1/WMV9, MPEG2, HEVC/H265 (8/10 bits), VP8, JPEG/MJPEG, VP9 HW Encode: AVC/H264, MPEG2, HEVC/H265, VP8, JPEG, VP9			
	LCD	1 x LVDS Dual Channel 24-bit, up to WUXGA 1920 x 1200 at 60Hz; *Optional, eDP 1.4, support up to 4096x2304 @ 60Hz			
	HDMI/DP	1 x HDMI 1.4a. Support up to 4096x2160 @ 30 Hz, 1 x DP 1.2, Support up to 4096x2304 @ 60Hz			
Ethernet	Multiple Display	Triple simultaneous displays with 48-bit LVDS/eDP + HDMI + DP			
	Controller	LAN1: Intel i219, LAN2: Intel i210			
External I/O	Speed	10/100/1000 Mbps			
	Ethernet	2 x RJ-45			
	VGA/HDMI/DP	-/1/1			
	USB3.1	4 (USB3.1 Gen.2)			
	COM Port	1 x RS-232/422/485			
	LED	Power status, HDD R/W			
	Power DC-Jack	Optional			
Internal I/O	SATA	2 x SATA GenIII 6.0Gbps			
	USB2.0	2			
	Serial Bus	1 x SMBus; 1 x I2C			
	COM Port	1 x RS-232/422/485			
	GPIO	2 x 8-bit general purpose input/output			
	Audio	Realtek ALC888S, High Definition Audio (HD), Line-in, Line-out, Mic-in			
	Inverter	3.3/5/12V for VDD power, 5/12V for inverter			
	LPC/SPI Bus	LPC for EC & SPI for BIOS & TPM 2.0			
	CAN Bus	1			
	Fan	1 x 4-Wire Smart Fan, 12V@2A			
	Front Panel Control	Power LED, HD LED, Reset, Power Switch, Case Open, Buzzer			
Board Feature	Watchdog Timer	65536 level, 0-65535 sec			
	TPM	TPM2.0 (Infinion SLB9670)			
	iManager 3.0	Software APIs for Power Monitor, CPU Temp., Smart Fan, GPIO, WDT, SMBus, I2C, Backlight & Brightness Control, CANBus			
Storage	NVMe	1, PCIe Gen.3 x4 with optional M-key 2280			
	SATA	2, up to 6Gb/s (600 MB/s)			
Expansion	M.2	1 x E-Key (PCIe x1, USB 2.0) - M.2 2230 WiFi/BT module 1 x B-Key (PCIe Gen.3 x2, SATA Gen.3, USB2.0) - M.2 2280 SSD module or M.2 3042 4G/LTE module (with nano SIM slot and bracket) *Optional, M-Key (PCIe Gen.3 x4, SATA Gen.3) - M.2 2280 NVMe/PCIe Gen.3x4 SSD module			
	mPCIe/mSATA	-			
	MIO Extension	DDI x 1, 4 PCIe x1, USB3.0, USB2.0, LPC, SMBus, Line-out, Power-on, Reset			
Power	Supply Voltage	Vin: DC 12V ± 10%; RTC Battery: Lithium 3V/210mAH			
	Connector	ATX 2x2 pin 90D, optional DC-Jack with lock or ATX 2x2 pin 180D			
	Power Management	AT, ATX			
	Max. Consumption	102.75W	95.38W	44.55W	74.44W
Environment	Idle Consumption	11.55W	11.55W	11.55W	11.55W
	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	3.5 Grms			
Certification	EMC	CE, FCC			
	Safety	-			
Mechanical	Dimensions	146 x 102 mm (5.7" x 4")			

Block Diagram



*Function block with dotted line support by request

Ordering Information

Part No.	CPU	Core	Max. Frequency	TDP	vPro	PCH	ECC	LVDS/eDP ¹	M.2 Slot Extension ²	Power Connector ³	Thermal Solution	Operating Temperature
MIO-5393RE6C-U8A1	E-2276ME	6	4.5 GHz	45W	Yes	CM246	Yes	LVDS	B-key + E-key	2x2 pin	Active	0 - 60 °C
MIO-5393RC7Q-U7A1	i7-9850HE	6	4.4 GHz	45W	Yes	QM370	No	LVDS	B-key + E-key	2x2 pin	Active	0 - 60 °C
MIO-5393RC7Q-S9A1	i7-9850HL	6	4.1 GHz	25W	Yes	QM370	No	LVDS	B-key + E-key	2x2 pin	Passive	0 - 60 °C
MIO-5393C5Q-U5A1	i5-8400H	4	4.2 GHz	45W	Yes	QM370	No	LVDS	B-key + E-key	2x2 pin	Active	0 - 60 °C
MIO-5393RE6CX-U8A1	E-2276ME	6	4.5 GHz	45W	Yes	CM246	Yes	LVDS	B-key + E-key	2x2 pin	Active	-40 - 85°C

- eDP is supported by request
- M.2 M-key +E-key is supported by request
- DC-Jack with lock is supported by request

Optional Accessories

Part No.	Description
1960094211T001	Active Cooler (65mm height)
1970004423N100	Heat Spreader
1700030406-01	Internal 2 ports USB cable 20CM

Embedded OS/API

OS	Part No.	Description
Win10 (High End)	20706WX9HS0051	img W10 19HL MIO-5393 64b 1809 ENU
Win10 (Value)	20706WX9VS0055	img W10 19VL MIO-5393 64b 1809 ENU
Software API	N/A	SUSI 4.0/iManager 3.0
Software API	N/A	WISE-PaaS/DeviceOn
Software API	N/A	Edge AI Suite

Packing List

Part No.	Description	Quantity
	MIO-5393 SBC	1
2046539300	Startup Manual	1
1700006291	SATA cable	1
1700018785	SATA Power cable	1
1700019584	Audio cable	1
1700030404-01	COM cable	1
1970004482T000	QFCS Cooler (TDP 45W SKU ; 43mm height)	1
1920001957N001	CPU bracket for Passive Heatsink (TDP 25W SKU)	1
1960094210N000	Passive Heatsink (TDP 25W SKU)	1
	Mini Jumper pack (10pcs)	1
	Screw kit (2pcs for M.2 device)	1
	Screw Kit (4 sets of screw & stand-off)	1

Rear I/O View



Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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