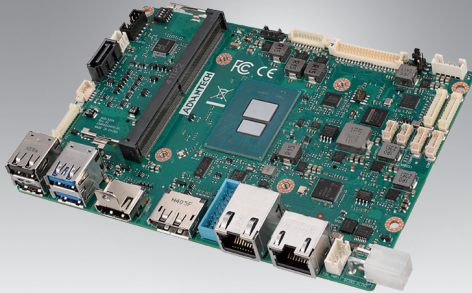


MIO-5354

Intel® Atom™ x7835RE, x7433RE,
x7211RE; Core™ i3-N305; Processor N97
on 3.5" SBC

NEW



Features

- Intel® Atom™ x7835RE, x7433RE, x7211RE, support Extend Temp.
- DDR5-4800 up to 16GB, support IBECC by Platform
- 3 independent display: LVDS + HDMI + DP
- 2x LAN, 6x USB, 4x COM, 2x CAN-FD, SMBus/I²C, DC-in 12-24V
- Expansion: M.2 E-Key 2230, M.2 B-Key 2280 & M.2 B-Key 3052
- Supports EdgeBMC (for OOB control) & Software APIs, DeviceOn

Software APIs:



Utilities:

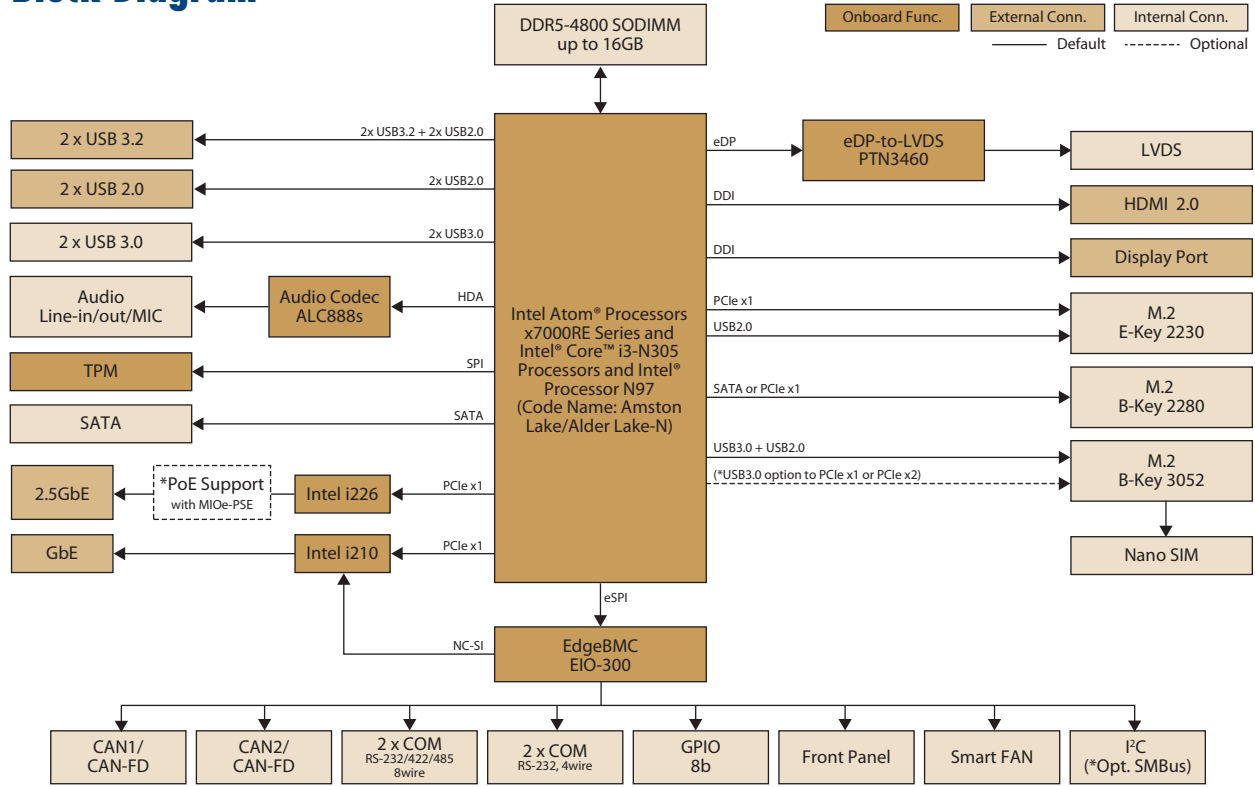


Specifications

Platform	Processor	x7835RE	x7433RE	x7211RE	i3-N305	N97
	Max. Frequency	3.60 GHz	3.40 GHz	3.20 GHz	3.80 GHz	3.60 GHz
Platform	Base Frequency	1.30 GHz	1.50 GHz	1.00 GHz	1.80 GHz	2.00 GHz
	Core	8	4	2	8	4
Platform	LLC	6MB	6MB	6MB	6MB	6MB
	CPU TDP	12W	9W	6W	15W	12W
Platform	Chipset	Intel 300 Series Chipset (SoC Integrated)				
	BIOS	AMI UEFI 256Mbit				
Memory	Technology	DDR5 4800 MT/s				
	Max. Capacity	Up to 16GB				
Memory	Channel/Socket	Single Channel / One 262pin SODIMM Slot				
	ECC Support	Support IBECC by Platform				
Graphics	Controller	Intel® UHD Graphics				
	Max. Frequency	1.20 GHz	1.00 GHz	1.00 GHz	1.25 GHz	1.20 GHz
Graphics	Execution Unit	32	32	16	32	24
	3D/HW Acceleration	DX12, OGL4.0, OCL1.2, HW Encode: HEVC/H265, AVC/H264, VP9, HW Decode: HEVC/H265, AVC/H264, VP9				
Display I/F	LCD	1 x LVDS, Dual Channel 18/24-bit, up to 1920 x 1080				
	HDMI/DP	1 x HDMI 2.0, up to 4096 x 2160 x 24bpp@48-60Hz 1 x DP1.4a, up to 4096 x 2304 x 36bpp@60Hz				
Display I/F	Triple Display	3 simultaneous displays by LVDS + HDMI + DP				
	Controller	LAN1: i226; LAN2: i210				
Ethernet	Speed	LAN1: 2.5GbE; LAN2: GbE				
	Feature	LAN1: Optional Support PoE. PSE compliant to IEEE 802.3at (30W with power module: MIOe-PSE) LAN2: Support EdgeBMC, Out of Band remote control				
External I/O	Ethernet	2 x RJ-45				
	VGA/HDMI/DP	-1/1/1				
External I/O	USB3.2/USB2.0	2/2				
	SATA	1 x SATA GenIII 6.0Gbps				
Internal I/O	USB3.0	2				
	Serial Bus	1 x I ² C (*BOM option to SMBus by request)				
Internal I/O	COM Port	2 x RS-232/422/485, 2 x RS-232				
	CAN Bus	2 x CAN-FD, 2M/4M/8M bit/s or CAN 2.0, 1M bit/s				
Internal I/O	GPIO	8-bit general purpose input output I/O				
	Audio	Realtek ALC888s, Line-in/Line-out/MIC				
Internal I/O	Inverter	5V @2A				
	Smart Fan	12V, 2A (4-wire)				
Board Feature	Front Panel Control	Power-on, Reset, Buzzer, SATA LED, Power LED, Case Open				
	Watchdog Timer	65536 level, 0-65535 sec				
Board Feature	TPM	Discrete TPM2.0				
	iManager 3.0	SW API for Hardware Monitor, Smart Fan Control, Brightness Control, I ² C, GPIO, WDT				
Expansion	M.2 E-Key	1 x E-Key 2230 (PCIe x1, USB2.0)				
	M.2 B-Key	1 x B-Key 2280 (SATA or PCIe x1) 1 x B-Key 3052 (USB3.0, USB2.0) w/ Nano-SIM. (*BOM option: USB3.0 to PCIe x1 or PCIe x2)				
Power	Supply Voltage	Vin: DC 12V-24V ± 10%; RTC Battery: Lithium 3V/200mAH, support w/o CMOS Battery				
	Connector	ATX 2pin 180D (*BOM Option to ATX 2pin 90D or DC-IN Jack by request)				
Power	Power Management	AT, ATX				
	Max. Consumption (*Ref. data with Burn-In Test. Please contact FAE for adapter selection.)	19.3W (12V) 20.8W (24V)	15.4W (12V) 17.2W (24V)	11.9W (12V) 14.8W (24V)	22.4W (12V) 23.8W (24V)	18.7W (12V) 20.4W (24V)
Power	Idle Consumption	12.7W (12V) 15.7W (24V)	10.4W (12V) 14.9W (24V)	10.5W (12V) 14.0W (24V)	11.7W (12V) 14.8W (24V)	10.7W (12V) 14.0W (24V)
Environment	Temperature	Operating: Standard: 0 ~ 60 °C (32 ~ 140 °F) with 0.7m/s airflow; Extend: -40 ~ 85 °C (-40 ~ 185 °F) with 0.7m/s airflow Storage: -40 ~ 85 °C (-40 ~ 185 °F)				
	Humidity	Operating: 40 °C @ 95% relative humidity, non-condensing Storage: 60 °C @ 95% relative humidity, non-condensing				
Certification	Vibration Resistance	3.5 Grms				
	EMC	CE, FCC Class B, ESD 8KV/15KV Criteria A				
Mechanical	Dimensions	146 x 102 mm (5.7" x 4")				
	Net Weight	145g				

*Note: Support by request

Block Diagram



*Optional PoE support on LAN2 requires external power module: MIOe-PSE

Ordering Information

Part No.	CPU	CPU Max. Frequency	Core	TDP	Memory IB ECC	GPU	GPU Max. Frequency	Execution Units	Thermal Solution	Operating Temperature
MIO-5354AW-P6A1	x7835RE	3.60 GHz	8	12W	Yes	Intel® UHD Graphics	1.20 GHz	32	Active	-40 ~ 85 °C
MIO-5354AW-P4A1	x7433RE	3.40 GHz	4	9W	Yes	Intel® UHD Graphics	1.00 GHz	32	Passive	-40 ~ 85 °C
MIO-5354AW-P2A1	x7211RE	3.20 GHz	2	6W	Yes	Intel® UHD Graphics	1.00 GHz	16	Passive	-40 ~ 85 °C
MIO-5354C3-P8A1	i3-N305	3.80 GHz	8	15W	Yes	Intel® UHD Graphics	1.25 GHz	32	Passive	0 ~ 60 °C
MIO-5354N-P6A1	N97	3.60 GHz	4	12W	Yes	Intel® UHD Graphics	1.20 GHz	24	Passive	0 ~ 60 °C

Packing List

Part No.	Description	Quantity
1700006291	MIO-5354 SBC	1
1700031583-01	SATA Cable 30cm	1
1700030404-01	SATA Power Cable 25cm	1
1700030404-01	COM1/COM2 Cable 20cm	2
1700019584-01	Audio Cable 20cm	1
1970005854T001	MIO-5354 CPU Heatsink (Passive Solution)	1
1970005931T001	MIO-5354 CPU Cooler (Active Solution)	1

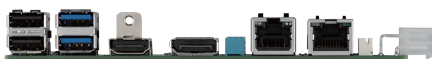
Optional Accessories

Part No.	Description
1970006081N001	MIO-5354 CPU Heatspreader
1700032181-01	Dual USB 3.0 Cable 35cm
1700031582-01	COM3/COM4 Cable 20cm
MIOe-PSE-SPA1	MIOe-PSE PoE Module A1 Single 30W

Embedded OS/API

OS/API	Part No.	Description
Windows 11 LTSC	20706WLE1S0037	Win11 IoT Ent. LTSC 2024 64bit (Entry SKU: Atom x7000RE & N97)
	20706WLV1S0037	Win11 IoT Ent. LTSC 2024 64bit (Value SKU: i3-N305)
Ubuntu 24.04 LTS Software API	TBD	Website Download
		Ubuntu Desktop 24.04 LTS 64-bit SUSI v4.0

Rear I/O View



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



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Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



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