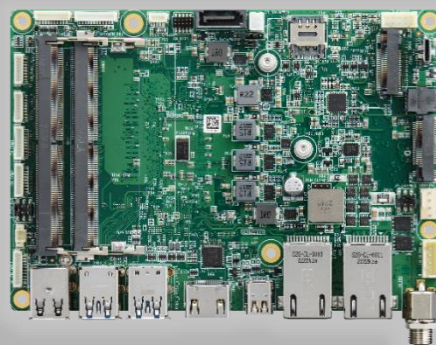


3.5" SBC

ASBC-3130



FEATURES

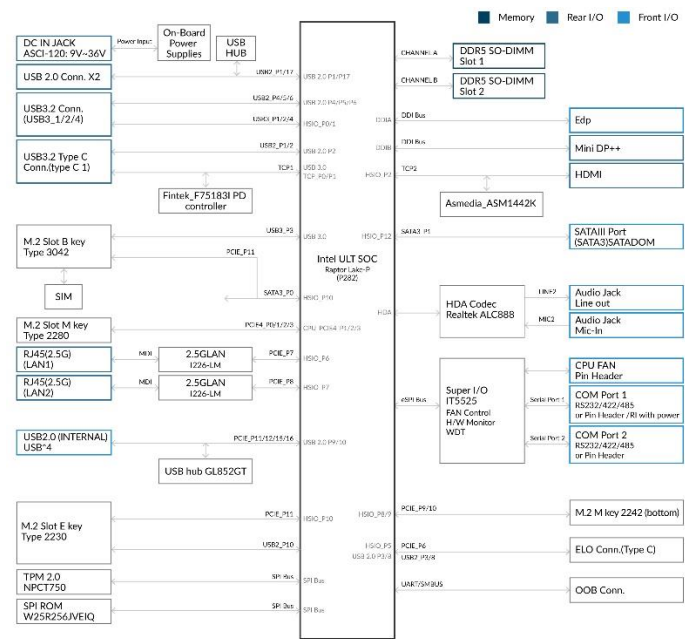
- USB Type C for display supports 4K @ 60Hz (DP1.4a)
- Up to 4 M.2 Expansion slots
- EIO for expansion board reserved

SPECIFICATIONS

Platform	CPU	i7-1365UE	i5-1335UE	i3-1315UE	Celeron® U300E	250U	220U
	Base Frequency	1.70 GHz	1.30 GHz	1.20 GHz	1.10 GHz	1.90 GHz	1.50 GHz
	Max. Frequency	4.90 GHz	4.50 GHz	4.50 GHz	4.30 GHz	5.40 GHz	5.00 GHz
	Core/Threads	10/12	10/12	6/8	5/6	10/12	10/12
	Cache	12MB	12MB	10MB	8MB	12MB	12MB
	TDP	15W	15W	15W	15W	15W	15W
	BIOS	AMI UEFI 256Mbit					
Memory	Technology	DDR5 5200MT/s					
	Max. Capacity	96GB (up to 48GB per SO-DIMM)					
	Socket	2 x 262-pin SO-DIMM (Non-ECC support)					
Graphics	Controller	Intel®Iris®Xe Graphics eligible		Intel®UHD Graphics			
	Max Frequency	1.30 GHz	1.25 GHz	1.20 GHz	1.10 GHz	1.30 GHz	1.25 GHz
	Graphic Engine	DX 12, Open GL 4.6, Vulkan 1.2 (Windows); Mesa 3D, Open GL 4.6, Vulkan 1.2 (Linux)					
		8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC 8K30 or 5K60 8b/10b 4:2:0 HEVC/VP9/SCC; 4K60 10b 4:4:4 HEVC/VP9/SCC					
Ethernet	Controller	LAN1~2: Intel® i226-LM, up to 2500Mbps					
Audio	Main System	Realtek ALC888, High Definition Audio					
Expansion Slots	M.2 2242/3042 B Key	1 (PCIe x1 Gen.3/USB 3.0/SATA 3.0), w/ Nano SIM socket					
	M.2 2230 E Key	1 (PCIe x1 Gen.3/USB 2.0)					
	M.2 2242 M Key	1 (PCIe x2 Gen.3)					
	M.2 2280 M Key	1 (PCIe x4 Gen.4)					
Rear I/O	Display	1 x HDMI, up to 4K @ 24Hz					
		1 x mini DP, up to 4K @ 30Hz					
		1 x USB 3.2 Gen.2 x1 (Type C), up to 4K @ 60Hz (DP1.4a)					
	USB 2.0 (Type A)	2					
	USB 3.2 Gen.2 x1 (Type A)	3					
Internal I/O	Ethernet	2					
	Serial	COM1: RS232/ RS422/RS485/PWR; COM2: RS232/RS422/RS485					
	eDP	1 (up to 4K @ 120Hz (eDP 1.4b))					
	Audio	1 x Line-out, 1 x Mic-in					
	USB 2.0 (Type A)	4					
	SATA III	1 (up to 6.0 Gb/s)					
	GPIO	1 x 8-bit					
	SMBus	1					

Power Supply	Power Input Voltage	Wide Voltage 9~36V
	Power Consumption	Max. 90W
	Connector Type	Lockable DC-Jack / Vertical Type 4-pin Connector
Environment	Operating Temperature	0°C~60°C (-40°C ~85°C by heatsink)
	Storage Temperature	-40°C~85°C
	Operating Humidity	95% @ 40°C, non-condensing
Watchdog Timer	Interval	Programmable from 1 to 255 Seconds
Security	TPM 2.0	Default: fTPM 2.0
Physical Characteristics	Dimension	146mm x 102mm x 16.34mm (3.5" SBC Form Factor)
	Net Weight/Gross Weight	0.15KG/0.92KG
Operating System		Microsoft Windows® 10 IoT Enterprise 2021 LTSC
		Microsoft Windows® 11 IoT Enterprise 2024 LTSC
Regulation	Safety	CE/FCC Class B/RoHS/UKCA

BLOCK DIAGRAM



ORDER INFORMATION

Part Number	CPU	COM	LAN	USB3.2/2.0	Display	Memory	M.2	Operating Temp.
ASBC-3130-A00	Intel® Core™ i7-1365UE	2	2	4/6	1 eDP 1 miniDP 1 USB Type C 1 HDMI	2	4 (2M+1E+1B)	0 to 60°C
ASBC-3130-A01	Intel® Core™ i5-1335UE							
ASBC-3130-A02	Intel® Core™ i3-1315UE							
ASBC-3130-A03	Intel® Celeron® U300E							
ASBC-3130-A04	Intel® Core™ 7 250U							
ASBC-3130-A05	Intel® Core™ 5 220U							

*Memory 48G will require additional thermal solution

PACKING LIST

Part Number	Description	Q'ty
ASBC-3130-AXX	ASBC-3130 SBC	1
7ASCI1200E120E01	Heatsink (0~60°C)	1
7W4000000120	SATA cable	1
7W4000000110	SATA power cable	1
7W6000000540	D-SUB cable	1
7SW1-M20035I1SN	Mounting Screws for M.2 B/M Key	3
7SW1M2015ISN	Mounting Screws for M.2 E Key	1

OPTIONAL ACCESSORIES

Part Number	Description
9Z9000000360	Adapter, 96W + 12V + DC Jack
7W8000000090	Power Cord (US)
7W8000000080	Power Cord (EU)
7W8000000070	Power Cord (UK)
7AOA04000E120E01	Heatsink (-40°C~85°C)
7AOA04000HXXS01	Spring Screw (Required 6pcs for 7AOA04000E120E01)
7W3000001211	4-pin power to DC jack cable
7W2000000230	USB 2.0 cable
7W5000000080	Audio cable