

3.5" SBC

ASBC-3150



FEATURES

- NPU integrated in SoC
- Up to 4 M.2 expansion slots
- Wide power voltage support: 9~36V

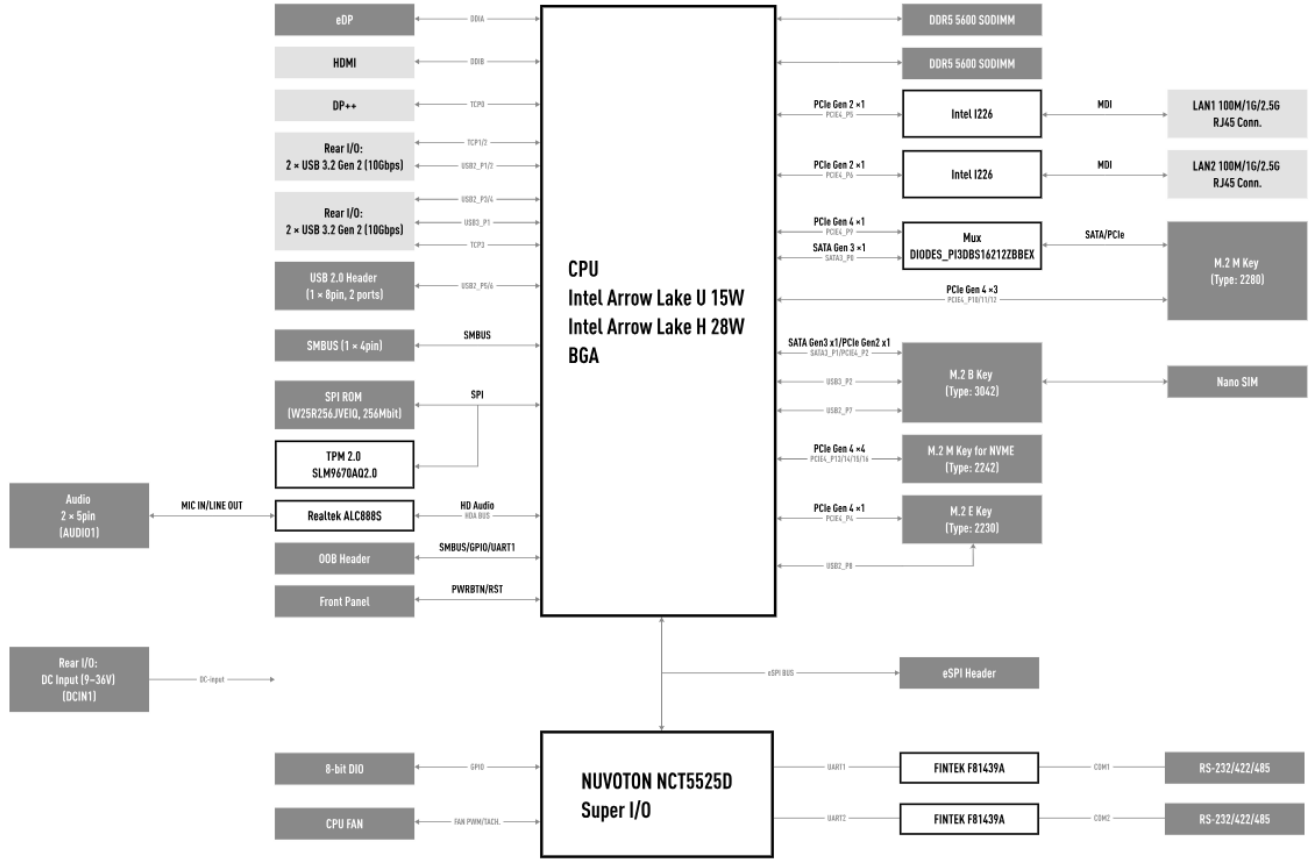
SPECIFICATIONS

Platform	CPU	255U	225U	265H
	Base Frequency (LPE core)	700 MHz	700 MHz	700 MHz
	Max. Frequency	5.2 GHz	4.8 GHz	5.3 GHz
	Core/Threads	12/14	12/14	16/16
	Cache	12MB	12MB	24MB
	TDP	15W	15W	28W
	BIOS	Insyde SPI 256Mbit		
Memory	Technology	DDR5 6400MT/s		
	Max. Capacity	128GB (64GB per SO-DIMM)		
	Socket	2 x 262-pin SO-DIMM (Non-ECC support)		
Graphics	Controller	Intel® Graphics		Intel® Arc™ 140T GPU
Ethernet	Controller	LAN1~2: Intel® i226, up to 2500Mbps		
Audio	Main System	Realtek ALC888, High Definition Audio		
Expansion Slot	M.2 2242/3042 B Key	1 (PCIe x1 Gen.3/USB 3.0/USB 2.0/SATA3.0), w/ Nano SIM socket		
	M.2 2230 E Key	1 (PCIe x1 Gen.3/USB 2.0) : on top side for optimal thermal performance		
	M.2 2280 M Key	1 (PCIe x4 Gen.4/SATA3.0)		
	M.2 2242 M Key	1 (PCIe x4 Gen.4) : on top side for optimal thermal performance		
Rear I/O	Display	1 x HDMI 2.0, up to 4K @ 30Hz 1 x DP++, up to 4K @ 60Hz		
	USB 3.2 Gen.2 x1 (Type A)	4		
	Ethernet	2		
Internal I/O	Serial Port	COM1~2: RS232/RS422/RS485		
	Display	1 x eDP, up to 4K @ 120Hz (eDP1.4b)		
	USB 2.0	2		
	SMBus	1		
	GPIO	8-bit		
	OOB	InnoAgent		
Power Supply	Power Input Voltage	DC 9~36V		
	Power Consumption	Max. 60W		
	Connector Type	Internal phoenix header		
Environment	Operating Temperature	U series SKU: 0°C~60°C, -40°C ~85°C (by optional heatsink) H series SKU: 0°C~60°C		
	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	0.16KG/0.82KG
Operating System		Microsoft Windows® 11 IoT Enterprise 2024 LTSC
Regulation	Safety	CE/FCC Class B/RoHS/UKCA

BLOCK DIAGRAM

- IC
- Ext Conn.
- Int Conn.



ORDER INFORMATION

Part Number	CPU	COM	LAN	USB3.2/2.0	Display	Memory	Thermal	M.2	Operating Temp.
ASBC-3150-A00	Intel® Core™ Ultra7 255U	2	2	4/2	1 eDP 1 HDMI 1 DP++	2	Fanless	4 (2M+1E+1B)	0 to 60°C
ASBC-3150-A01	Intel® Core™ Ultra5 225U								
ASBC-3150-A10	Intel® Core™ Ultra7 265H						Fan		

*Memory 64G will require additional thermal solution

PACKING LIST

Part Number	Description	Q'ty
ASBC-3150-AXX	ASBC-3150 Series SBC	1
7SW1-M20035I1SN	Mounting Screws for M.2 B Key/M.2 2280 M key)	2
7SW1M2015I1SN	Mounting Screws for M.2 E Key/M.2 2242 M Key)	2
7W6000000460	D-SUB cable	1
7AOA06000E120E01	Heatsink for U series SKU (0°C~60°C)	1
7AOA06000E120E03	Heatsink for H series SKU (0°C~60°C)	1
7W8000000110	Terminal Block Cable 150mm	1
7TG002M00011	2P Terminal block	1

OPTIONAL ACCESSORIES

Part Number	Description
9Z9000000230	Adapter, 100-240V, 12V, 96W, 2P phoenix header
7W5000000080	Audio cable
7W2000000200	USB 2.0 cable
7W8000000070	Power Cord 180cm (UK)
7W8000000080	Power Cord 180cm (EU)
7W8000000090	Power Cord 180cm (US)
7AOA06000E120E02	Heatsink for U series SKU (-40°C~85°C)