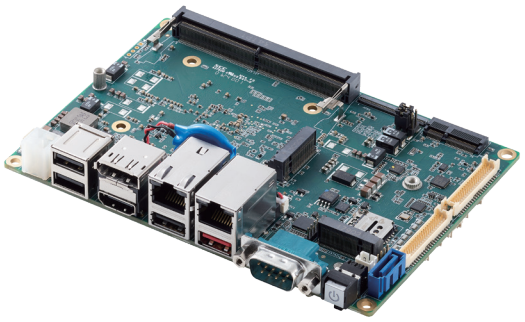
SBC35-ALN

3.5" Single Board Computer with
Intel® N97 Processor

Features

- Intel® N97 Processor
- DDR5 4800MHz memory up to 16GB
- Three independent display: eDP/LVDS HDMI, DP
- Dual GbE ports: 1GbE (Intel i210IT)
- SBC-FM board expansion: PCIe x1, USB2.0, LPC
- TPM 2.0 (option)



Windows

60°C
0°C

Ordering Information

PN	Model Name	CPU	Memory	DP	HDMI	LCD	COM	SATA	USB2.0	USB3.0	M.2	SBC-FM	TPM
91-44840-50XX	SBC35-ALN	N97	DDR5 SO-DIMM 4800 MHz	1	1	LVDS	4	1	3	1	3	Support	Support (option)

Packing Lists

PN	Description	QTY
91-44840-50XX	SBC35-ALN	1
58-10515-0000	M.2 screw kit	1

Optional Accessories

PN	Description
32-21039-0000-A0	Passive Heatsink
30-21534-0010-A0	RS-232x2+ RS-232/RS-485/RS-422x2
30-21611-0000-A0	RS-232x2
30-22122-0000-A0	DI/DOx8-bits +Audio +USB 2.0x2
30-22121-0000-A0	SATA + SATA power cable

Embedded OS

PN	Description
92-56094-0010	Windows 10 IoT Ent LTSC 2021 High End PKEA
92-56094-2010	Windows 10 IoT Ent LTSC 2021 Value PKEA
92-56094-4010	Windows 10 IoT Ent LTSC 2021 Entry PKEA
92-56101-0010	Windows 11 IoT Ent 2022 High End PKEA
92-56101-2010	Windows 11 IoT Ent 2022 Value PKEA
92-56101-4010	Windows 11 IoT Ent 2022 Entry PKEA

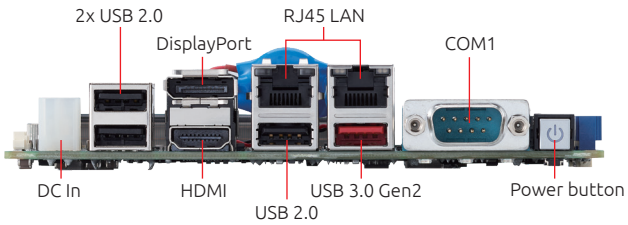
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Specifications

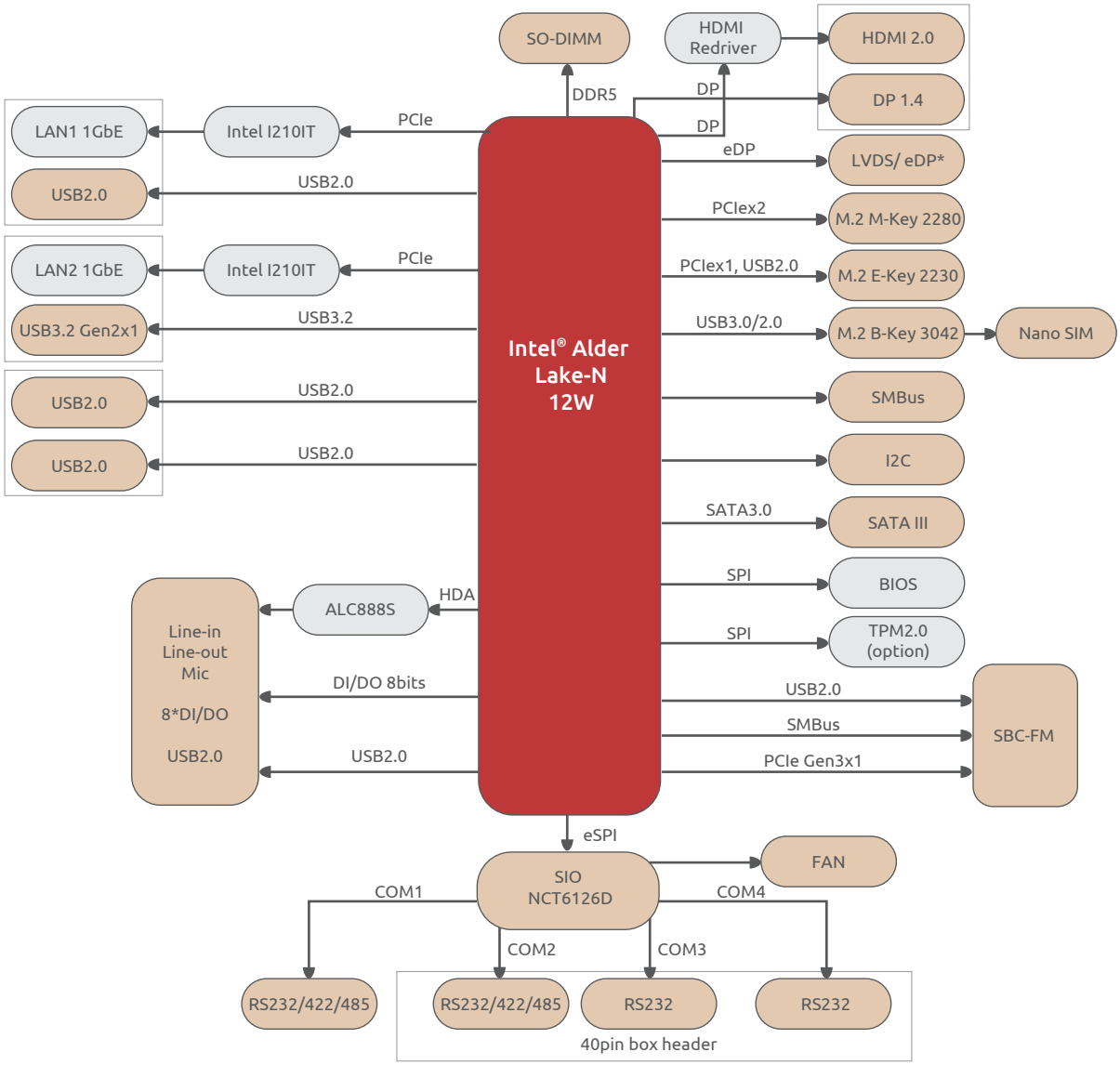
Model	SBC35-ALN
Processor System	
CPU	N97, 4-cores, 3.6GHz, 12W
Memory	1x DDR5 SO-DIMMs, up to 4800MHz, up to 16GB
Operating Systems	Windows 10/11 (64-bit) Ubuntu 22.04 (Support by project)
Display	
VGA	-
LVDS/ eDP	eDP/ LVDS*1 (default LVDS)
HDMI	1
DisplayPort	1
Number of Displays Supported	3
Ethernet	
Gbe Port	2
Controller/ Frequency	2x Intel® i210IT, support 1Gbps/ 100Mbps / 10Mbps
I/O Interfaces	
USB	1x USB 3.2 Gen 2x1 ports (10Gbps) (rear I/O) 3x USB 2.0 (rear I/O)
COM	COM1: RS-232/422/485 (rear I/O) COM2: RS-232/422/485 DB9 or 40pin box header (default) by BOM option COM3/4: 2x RS-232 through 40pin box header
Serial ATA	1x SATA 6Gb/s ports w/ 5V SATA power
Audio	Realtek ALC888S 1x line-in, 1x line-out, MIC-in through 40pin box header
Expansion Slots	M.2 2280 M Key (PCIex2) M.2 2230 E Key with (Wi-Fi(PCIex1), BT(USB2.0)) M.2 3042 B-key (USB3.0/2.0) w/ SIM card
TPM	Yes (TPM 2.0, option)
DI/ DO	8 DI and 8 DO through 40pin box header
SBC-FM board expansion	
PCIex1	1
PCIe x4	-
USB3.0/2.0	USB2.0 x1
LPC	Yes
Mechanical and Environment	
Form Factor	3.5" Single Board Computer
Dimension	5.75" x 4" (146mm x 102mm)
Power Supply	12V-24V Reserve DC JACK connector (option)
Operating Temperature	0 to 60 °C
Storage Temperature	-40°C to 85°C
Certification	
EMC	CE & FCC Class B
ESD	Contact +/-4 KV, Air +/-8 KV

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Product Illustration



Block Diagram



* co-lay by BOM change, please contact with your local sales.

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CPU Support List

Family	Number	CPU Core	Frequency	Processor Base Power
Intel Processor N Series	N97	4 Core	2GHz	12W
	x7425E	4 Core	3.4GHz	12W
	i3-N305	8 Core	3.8GHz	9W

*For the non-standard skus, we support by project based. Please contact with local sales in detail.

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