ADLINK
LEADING EDGE AI COMPUTING

SBC35-RPL

3.5" Single Board Computer with 13th Gen Intel® Core™ i7/i5/i3/Celeron® Processor

Features

- 13th Gen Intel® Core™ i7/i5/i3/Celeron® processor
- Dual-channel DDR5 4800MHz memory up to 64GB
- Four independent display: eDP/LVDS (default eDP) HDMI, DP, USB Type-C
- Dual GbE ports: 1GbE (Intel® I219-V), 1x 2.5GbE (Intel® I225-V)
- SBC-FM board expansion: PCIe x1, PCIe Gen3 x4, USB3.0/2.0, LPC
- TPM 2.0 (option)



Windows

60°C
0°C

Ordering Information

PN	Model Name	CPU	Memory	DP	HDMI	LCD	USB Type-C	COM	SATA	USB2.0	USB3.0	M.2	SBC-FM	TPM
91-47300-00XX	SBC35-RPL	i3-1315UE	DDR5 SO-DIMM 4800 MHz	1	1	eDP	1	4	1	3	2	3	Support	Support (option)

Packing Lists

PN	Description	QTY
91-47300-00XX	SBC35-RPL	1
58-10515-0000	M.2 screw kit	1
58-10514-0000	Thermal kit	1

Optional Accessories

PN	Description
32-21014-0000-A0	CPU cooler for 28W CPU
32-21015-0000-A0	Passive Heatsink for 15W CPU
30-21363-0000-A0	USB 2.0 Type A connectorx1
30-21534-0010-A0	RS-232x2+ RS-232/RS-485/RS-422x2
30-22122-0000-A0	DI/DOx8-bits +Audio +USB 2.0x2
30-22121-0000-A0	SATA+ SATA Power
91-49076-0010	SBC35-RPL LVDS FPC

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

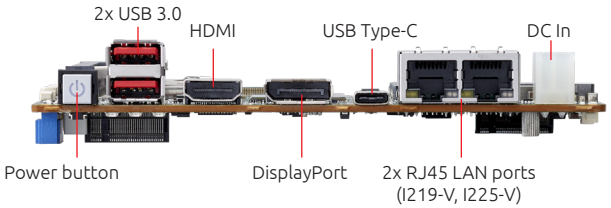
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Specifications

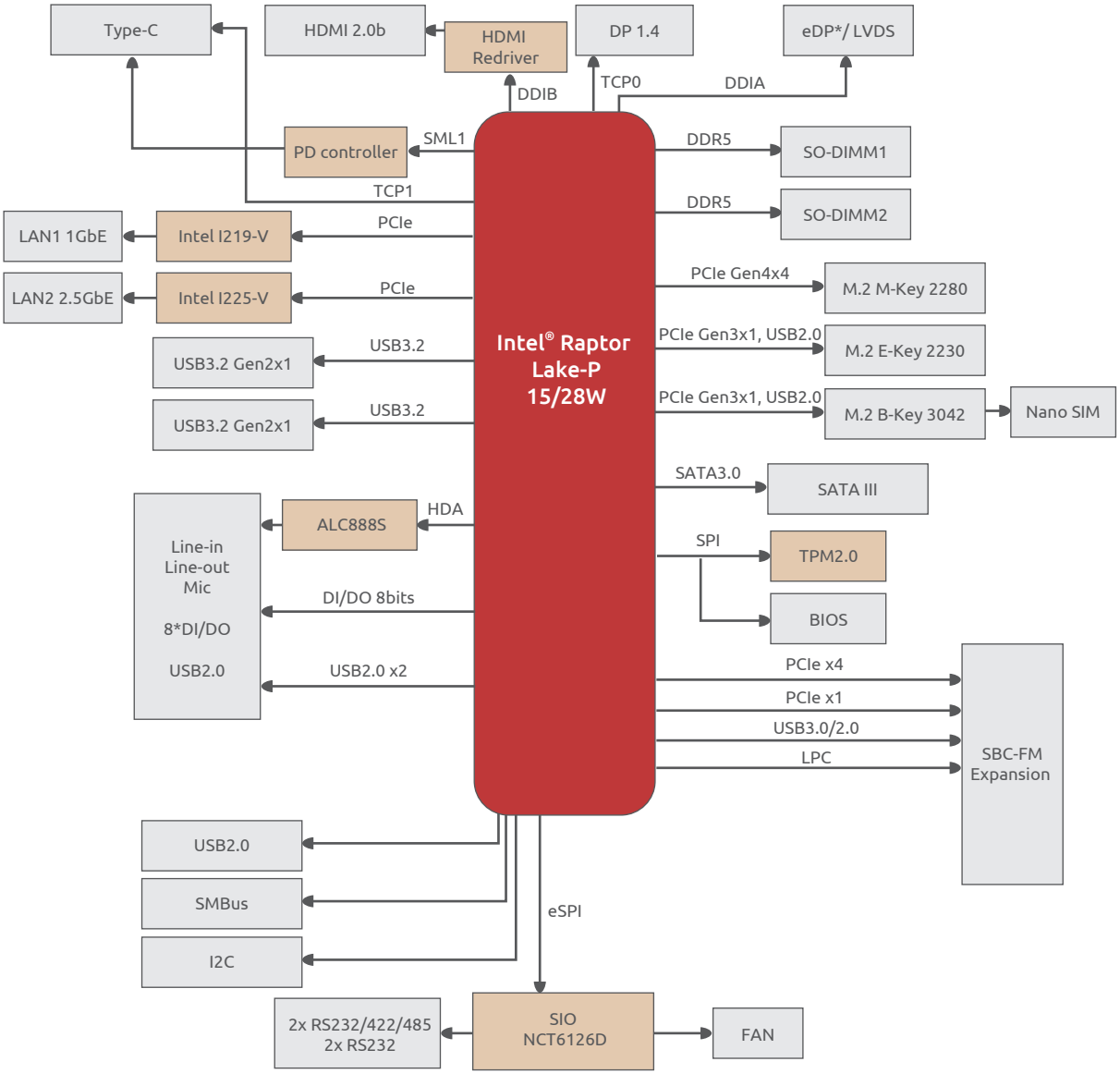
Model	SBC35-RPL
Processor System	
CPU	Intel® Core™ i7/i5/i3/Celeron® processor
Memory	Dual-channel DDR5 SO-DIMMs 4800MHz, up to 64GB
Operating Systems	Windows 10/ 11 IoT Enterprise LTSC 21H2 (64-bit) Ubuntu desktop 22.04 LTS (Support by project)
Display	
Type-C	1
eDP	1 (co-lay LVDS by option)
HDMI	1
DisplayPort	1
Ethernet	
Gbe Port	2
Controller/ Frequency	1x Intel® I219-V, 1Gbps/ 100Mbps / 10Mbps 1x Intel® I225-V, 2.5Gps / 1Gbps/ 100Mbps / 10Mbps
I/O Interfaces	
USB	2x USB 3.2 Gen 2x1 ports (10Gbps) (rear I/O) 3x USB 2.0 via headers (max. 5V, 0.5A/ each port)
USB Type-C	1x USB TYPE-C (USB 3.2, DP, Power delivery 5V, 3A)
COM	2x RS-232/422/485 pin headers 2x RS-232 pin headers
Serial ATA	1x SATA 6Gb/s ports w/ 5V SATA power
Audio	Realtek ALC888S 1x line-in, 1x line-out, MIC-in
Expansion Slots	M.2 2280 M Key (PCIe x4) M.2 2230 E Key (PCIe x1, USB 2.0) M.2 3042 B-key (USB 3.0/2.0)
I^2C/SMBUS	I^2C x1, SMBus x1
TPM	TPM 2.0 (option)
DI/ DO	8 DI and 8 DO
FM board expansion	
PCIex1	1
PCIe x4	1
USB3.0/2.0	1
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 Fanless, reserve 4-pin smart fan connector (12V) for 28W SKU.
Storage Temperature	-40°C to 85°C
Certification	
EMC	CE & FCC Class B
ESD	Contact +/-8 KV, Air +/-12 KV

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Product Illustration



Block Diagram



* Default by BOM change, contact with your local sales to support option.

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CPU Support List

Family	Number	CPU Core	Frequency	Processor Base Power
Rapter Lake	i3-1315UE	6 Core	4.5GHz	15W
	i3-1320PE	8 Core	4.5GHz	28W
	i5-1350PE	12 Core	4.6GHz	28W
	i7-1365UE	10 Core	4.9GHz	15W
	i7-1370PE	14 Core	4.8GHz	28W

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

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