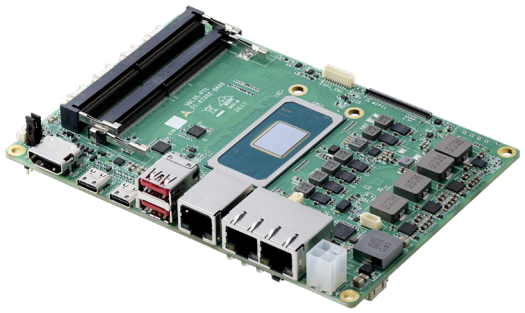
ADLINK
LEADING EDGE AI COMPUTING

SBC35-PTL

3.5" Single Board Computer with Intel® Core™ Ultra Series 3

Features

- Intel® Core™ Ultra Series 3 with integrated AI acceleration
- Robotics-ready connectivity with triple LAN and CAN bus
- Flexible SBC-FM expansion for I/O and camera integration



Windows

Ordering Information

PN	Model Name	CPU	Memory	HDMI	LCD	USB Type-C	LAN	COM	USB 2.0	USB 3.2	M.2	SBC-FM	TPM
91-47302-00	SBC35-PTL-325	325	2x DDR5 SO-DIMM 7200 MHz	1	LVDS	2	3	2	3	2	3	Support	Support
91-47302-10	SBC35-PTL-356H	356H	2x DDR5 SO-DIMM 7200 MHz	1	LVDS	2	3	2	3	2	3	Support	Support

Packing Lists

PN	Description	QTY
91-47302	SBC35-PTL	1
58-10515-0000	M.2 screw kit	1
58-11038-0000	Thermal kit	1

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 High End PKEA
92-56101-2010	Windows 11 IoT Ent Value PKEA
92-56101-4010	Windows 11 IoT Ent Entry PKEA

Optional Accessories

PN	Description
32-21155-0000-A0	CPU cooler for 28W CPU
30-21363-0000-A0	USB 2.0 Type A connectorx1
30-22139-2000-A0	RS-232/RS-485/RS-422x2
30-22224-0000-A0	AFM PWR Cable
91-49076-0010	SBC35-PTL LVDS FPC
30-22454-0000-A0	USB, CANBus and Audio
31-62164-0020-A0	240W, Adapter, 12V/20A
30-22060-0000-A0	2x4pin to 2x2pin for 240W adapter
30-22441-0000-A0	Power button cable
59-47402-000E	SBC-FM-GMSL AFM board
30-22452-0000-A0	SBC-FM-GMSL PWR Cable

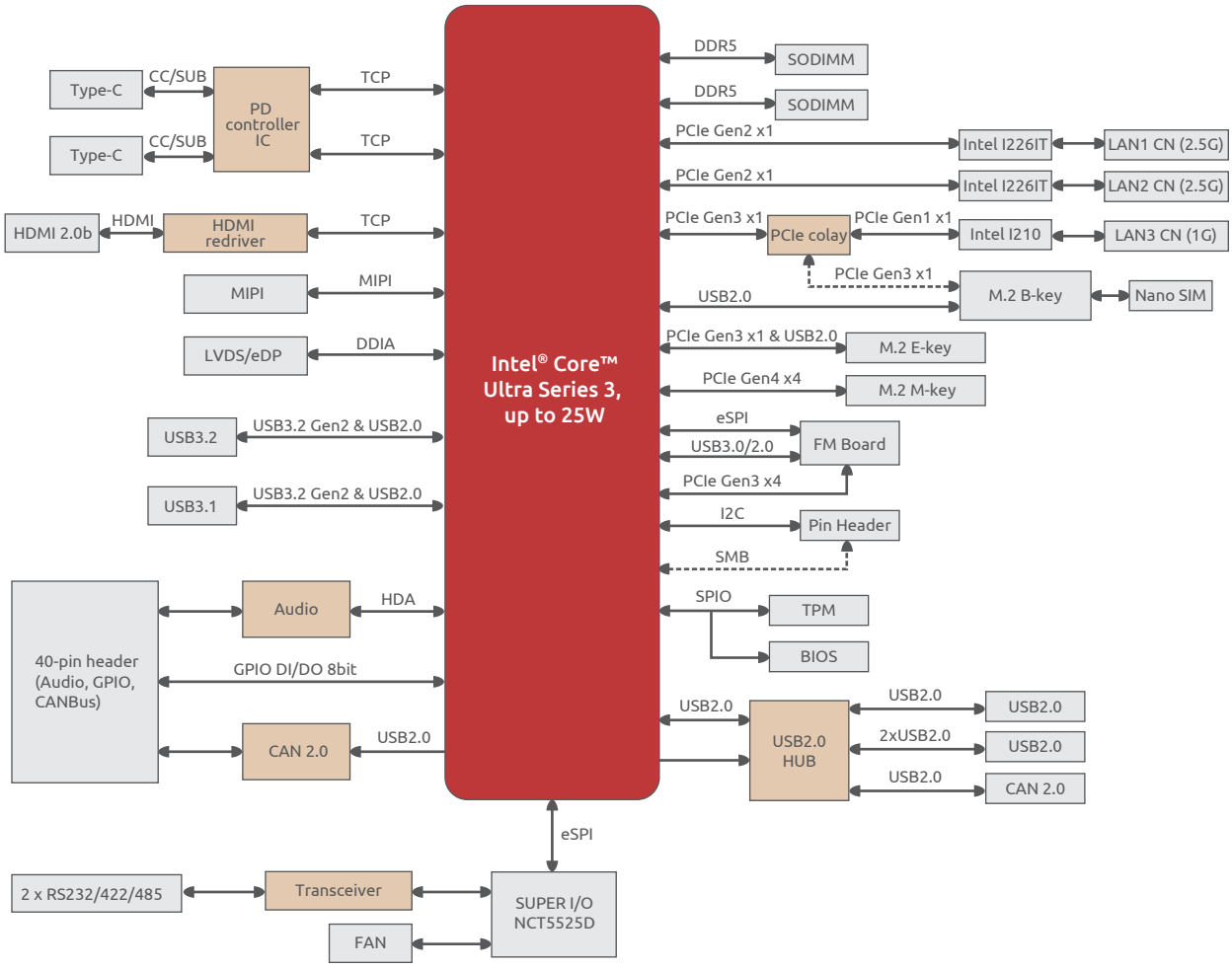
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Specifications

Model	SBC35-PTL
Processor System	
CPU	Panther Lake-H, 25W
Memory	2x DDR5 SO-DIMMs up to 7200MHz, up to 128GB, non-ECC
OS Support	Win10/ Win11 24H2 LTSC Ubuntu 24.04LTS (support by project)
Display	
VGA	-
HDMI	1x HDMI2.0
DisplayPort	-
LVDS/ eDP	LVDS/ eDP (default is LVDS, requires LVDS FPC cable for LVDS support)
Type-C	2
Number of Displays	4 (HDMI, 2x Type-C, LVDS/eDP)
Ethernet	
Gbe Port	3
Controller/ Frequency	2x Intel® I226V/I226IT, 2.5Gps / 1Gbps/ 100Mbps / 10Mbps 1 x Intel® I210, 1Gbps/ 100Mbps / 10Mbps (co-lay M.2 B)
I/O Interfaces	
USB	2x USB 3.2 Gen 2x1 ports (10Gbps) (rear I/O) 3x USB 2.0 via headers
USB Type-C	2x USB TYPE-C (USB 3.2, DP, Power delivery 5V, 3A)
COM	2x RS-232/422/485 pin headers
Serial ATA	-
Audio	Realtek ALC888S 1x line-in, 1x line-out, MIC-in through 30pin header
Expansion Slots	1x M.2 2280 M Key (PCIex4) 1x M.2 2230 E Key (PCIe Gen 4x1, USB) 1x M.2 3042 B-key (USB3.0/2.0, PCIe x1 colay 3rd LAN, support by option) w/ SIM card
TPM	TPM2.0
CANBUS	CANBUS 2.0
DI/ DO	GPIO 8-bit through 30pin header
FM board expansion	
PCIex1	-
PCIex4	1 (up to Gen3)
USB 3.0/2.0	1
LPC	-
eSPI	1
Mechanical and Environmental	
Dimension	5.75" x 4" (146mm x 102mm)
Operating Temperature	0 to 60 °C
Storage Temperature	-40°C to 85°C
Power Supply	12V connector type: 2x2 connector + DC JACK co-lay
ESD	Contact +/-8 KV, Air +/-12 KV
Certification	
	CE & FCC Class B

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Block Diagram



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