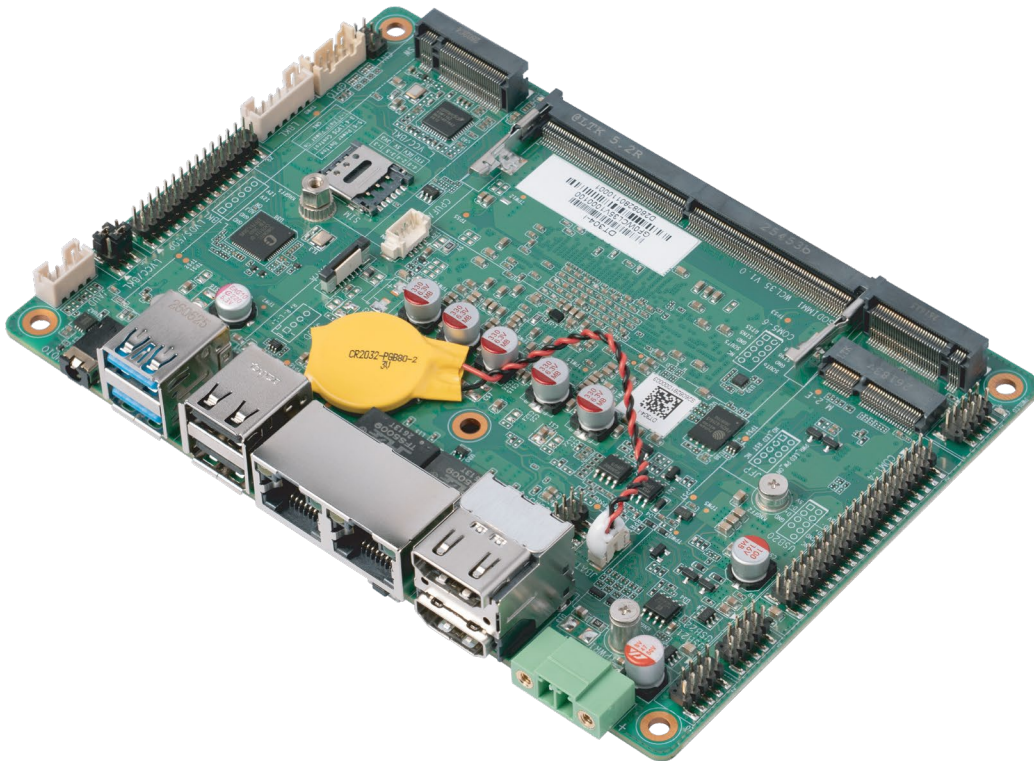


WCL-35

Intel® Wildcat Lake Series Processor based Single Board Computer



Features

- CPU: Intel® Wildcat Lake Series Processor
- Memory: Single Channel SO-DIMM DDR5 up to 64GB
- Display: Integrated Intel Graphics display via 2 x HDMI+eDP/LVDS
- Ethernet: 10/100/1000Mbps
- Storage & Expansion: M.2 Key M Slot for NVMe SSD, M.2 Key B Slot for SATA SSD or 4G, M.2 Key E Slot for Wi-Fi&BT, SATA FPC Interface
- Power: 9V-36V 2-Pin DC-IN Phoenix Connector/DC-IN Jack Optional



Introduction

The WCL-35 is a compact 3.5-inch single board computer powered by the Intel® Wildcat Lake Series platform, combining efficient computing performance, integrated graphics, and AI acceleration in a space-saving design. Equipped with the Intel® Core™ 3 Processor 304, the board delivers up to 4.30GHz turbo frequency and features an integrated NPU with up to 15 TOPS. It also supports up to 64GB of DDR5 memory and triple-display output through dual HDMI 2.0 and eDP/LVDS, making it suitable for intelligent embedded systems and multi-display applications.

Designed for flexible industrial integration, the WCL-35 provides dual Intel® i210 Gigabit Ethernet, up to six COM ports, eight USB interfaces, and 8-bit GPIO. Multiple M.2 expansion slots support NVMe and SATA storage, 4G connectivity, and Wi-Fi, Bluetooth. With a wide 9-36V DC input, hardware monitoring, watchdog, automatic power-on, and an operating temperature range of -20°C to 60°C, the WCL-35 offers a reliable and versatile platform for industrial automation, smart control, edge computing, kiosks, and other embedded applications.



H/W Monitor



Watchdog



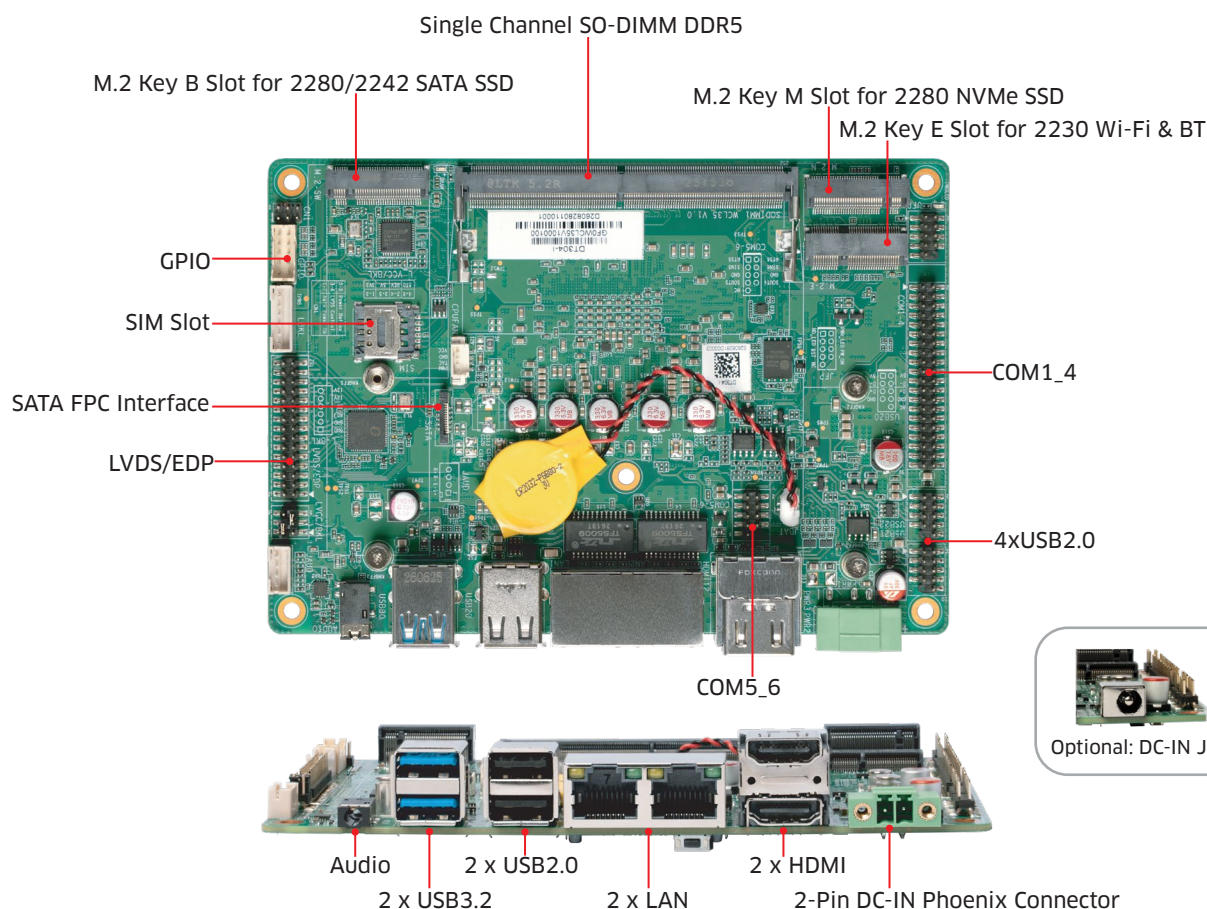
GPIO



Brightness



I/O Interfaces

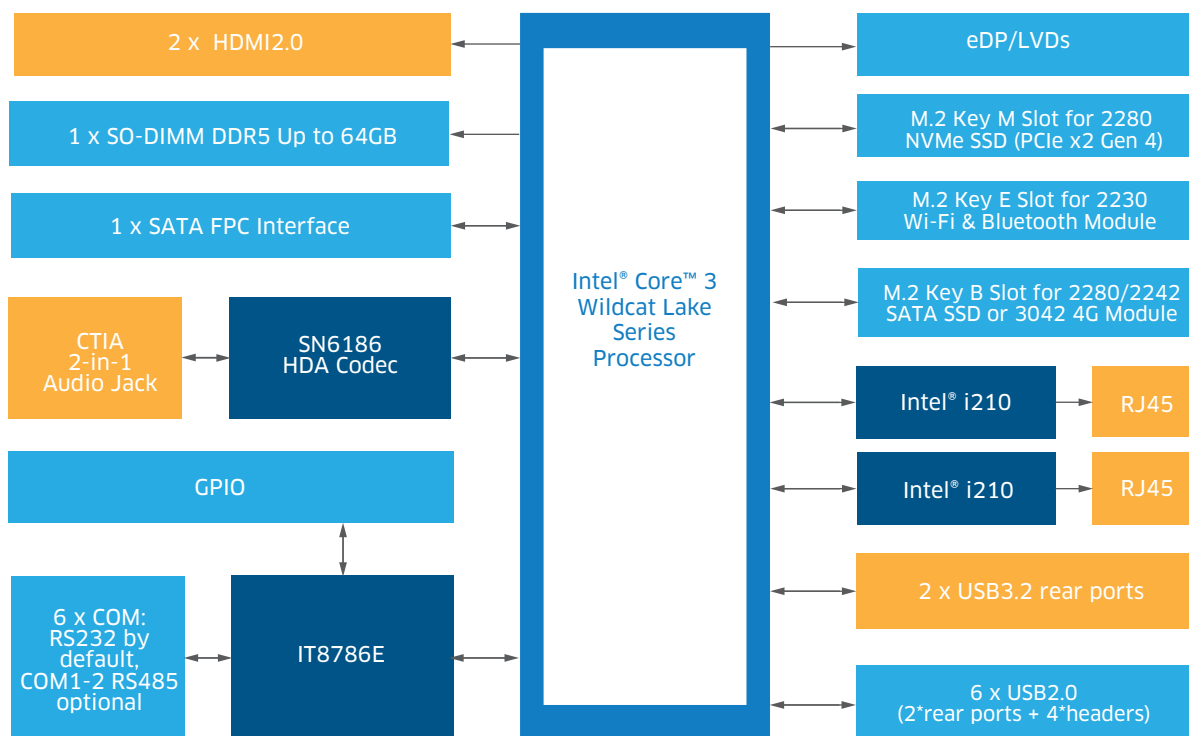


Technical Specifications

Processor	Intel® Core™ 3	304
	Total Cores/Threads	5C/5T
	Max Turbo Frequency	4.30GHz
	Intel® Smart Cache	6MB
	TDP	15W
NPU	NPU Peak TOPS	15TOPS
	BIOS	AMI UEFI BIOS
Memory	Type	Single Channel SO-DIMM DDR5
	Max. Capacity	64GB
Display	GPU	Integrated Intel® Graphics
	Display via	2 x HDMI2.0, 1 x eDP/LVDS
Ethernet	Controller	2 x Intel® i210
	Speed	10/100/1000Mbps
	Interface	2 x RJ45
	Wake on LAN	Yes
Audio	Audio Codec	SenaryTech SN6186
	Interface	1 x CTIA Audio Jack, Line-out + Mic-in in one, supports power amplifier
Hardware Monitoring		CPU system temperature, on-board DC-in voltage, watchdog, auto power on
Storage & Expansion	M.2_N	1 x M.2 Key M Slot for 2280 NVMe SSD (PCIe x2 Gen 4)
	M.2_SW	1 x M.2 Key B Slot for 2280/2242 SATA SSD or 3042 4G Module
	M.2_E	1 x M.2 Key E Slot for 2230 Wi-Fi & Bluetooth Module, support CNVi
	SATA	1 x SATA FPC Interface
	COM	6 x COM: default 4*RS232+2*RS485, or 6*RS232 optional
I/O Interface	USB3.2	2 x USB3.2 (rear ports)
	USB2.0	6 x USB2.0 (2*rear ports+4*headers)
	GPIO	8-bit
Dimension	Size	146 mm x 102mm
	Form Factor	3.5" SBC
Power	Input Voltage	9V-36V DC
	Standard Port	2-Pin DC-IN Phoenix Connector
	Optional	DC-IN Jack
	Peripheral Input	For Fan and SATA
	LED Indicator	Power Indicator
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Win10/11 64bit, Linux 64bit

* All specifications and photos are subject to change without notice.

Functional Block Diagram



Order Information

Model Name	Description
DT304-I	DT 3.5INCH Intel Core 3 304 WCL35 DDR5 2LAN 4*RS232+2*RS485 2*HDMI+LVDS

***For customized options, please contact regional sales. Model names and descriptions are subject to change; please confirm before purchase.