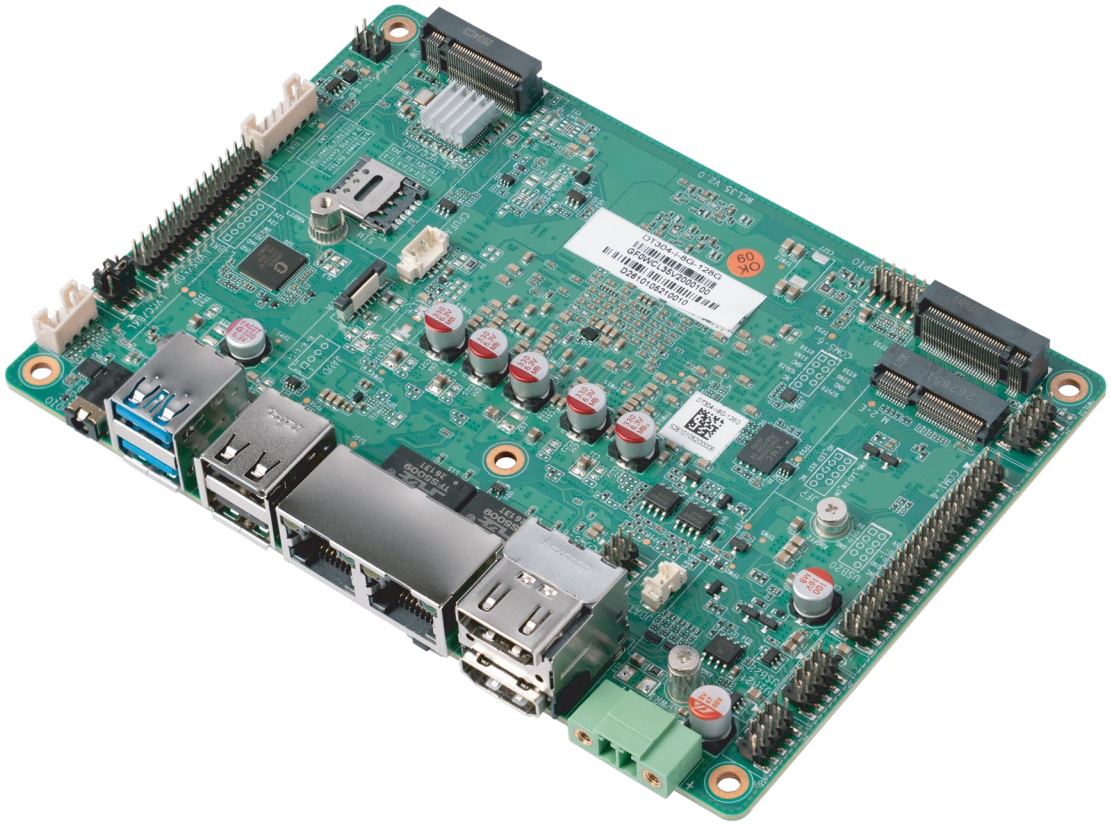
PRODUCT DATASHEET
HW Rev.: V2.0

WCL-35

Intel®Wildcat Lake Series Processor based Single Board Computer



Features

- CPU: Intel® Wildcat Lake Series Processor
- Memory: Onboard LPDDR5, 8GB/12GB/16GB
- 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, UFS Flash optional
- Power: 9V-36V 2-Pin DC-IN Phoenix Connector/DC-IN Jack Optional

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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 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.

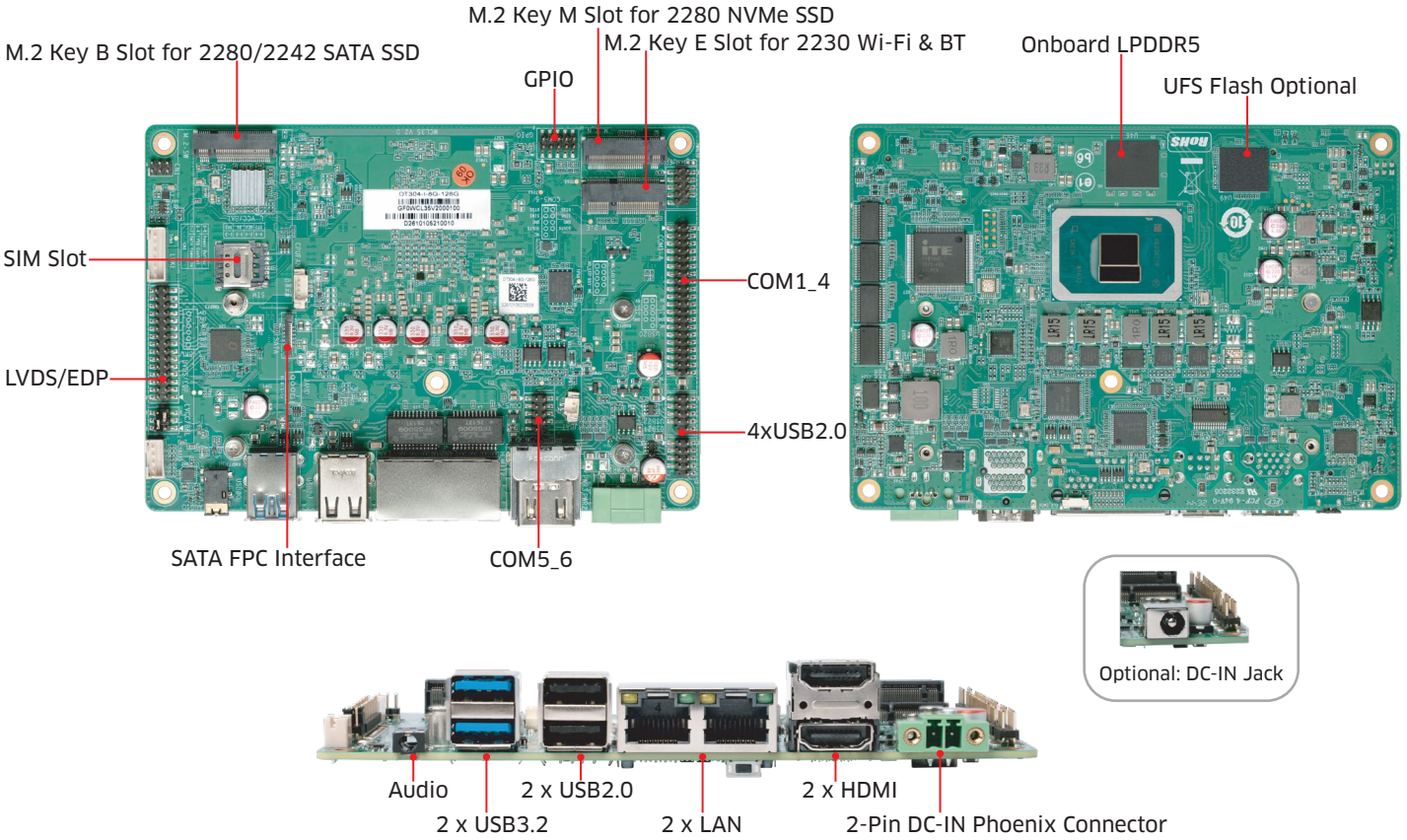
Designed for flexible industrial integration, the WCL-35 provides dual Intel® i210 Gigabit Ethernet, up to six COM ports, eight USB interfaces, and 8-bit GPIO. Multiple M.2 expansion slots support NVMe and SATA storage, 4G connectivity, and Wi-Fi, Bluetooth. With a wide 9–36V DC input, hardware monitoring, 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.

Linux
ubuntu
Windows

H/W Monitor
Watchdog
GPIO
Brightness

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

I/O Interfaces

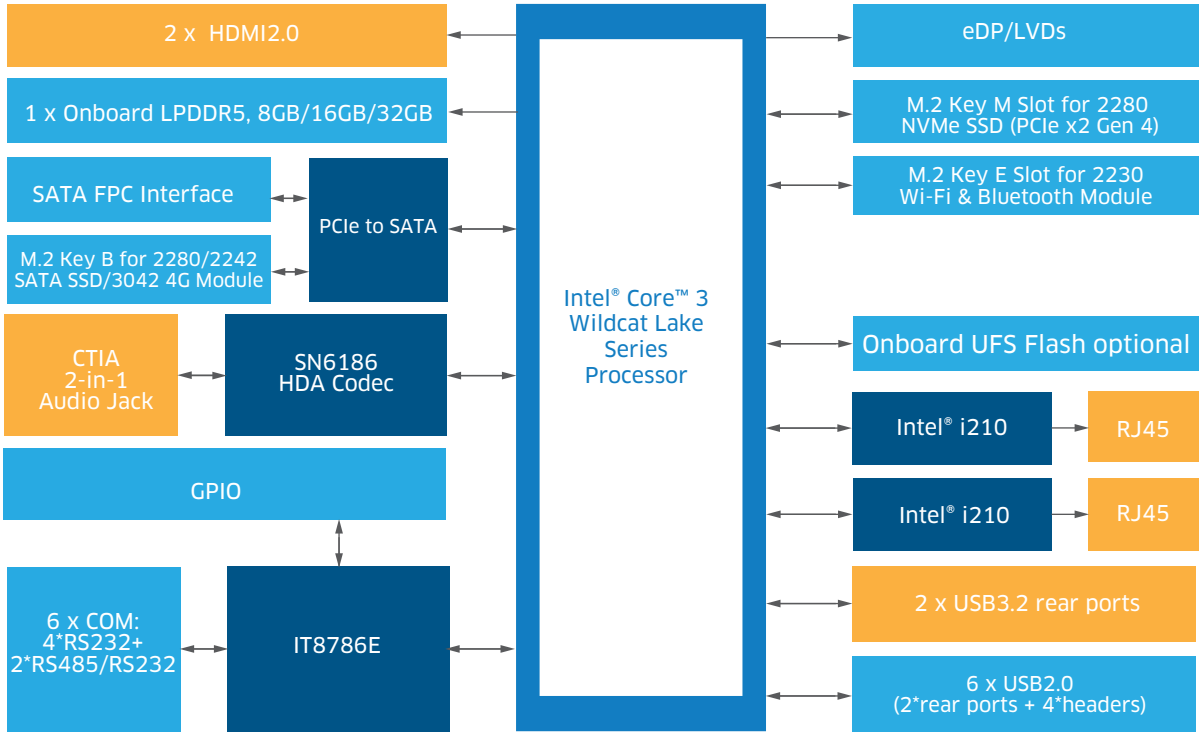


Technical Specifications

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	Onboard LPDDR5-6400MT/s
	Capacity	8GB/12GB/16GB
Display	GPU	Integrated Intel® Graphics
	Display via	2 x HDMI2.0, 1 x eDP/LVDs
Ethernet	Controller	2 x Intel® i210
	Speed	10/100/1000Mpbs
	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
	UFS	Onboard UFS Flash 2.2/3.1 optional
I/O Interface	COM	6 x COM: default 4*RS232+2*RS485, or 6*RS232 optional
	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; DC-IN Jack optional
	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-8G	DT 3.5INCH Intel Core 3 304 WCL35V20 LPDDR5_8G 2LAN 4*RS232+2*RS485 2*HDMI+LVDS
DT304-I-8G-128G	DT 3.5INCH Intel Core 3 304 WCL35V20 LPDDR5_8G UFS2.2_128G 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.

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