IXWL-35

Intel® Whiskey Lake U/Comet Lake U based Embedded Industrial PC

Features

- CPU: Intel® Whiskey Lake U/Comet Lake U processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64 GB
- Display: Intel® UHD Graphics via HDMI, DP, VGA optional
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, 1x M.2 for 2242 SSD/4G
- Expansion: M.2 for WiFi
- Power: 12V/19V DC input, Phoenix input optional

intel® IoT Solutions Alliance
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Introduction

The IXWL-35 is a compact, fanless embedded industrial PC powered by the Intel Whiskey Lake U/Comet Lake U processor. It supports dual-channel SO-DIMM DDR4 up to 64GB, a TDP rate of 15W, great for energy saving. A rich I/O interface includes HDMI, DP, two RJ45 gigabit network controllers, six serial ports(or 5 COM+1 VGA), and eight USB ports that cater to most market needs.

The system is an ideal solution for various industrial applications, features diverse I/O ports for easy integration, and ruggedized design for harsh environments. The fanless nature protects it from dust, particles, chemical or moisture ingress. It provides a great user experience based on its stability and reliability.
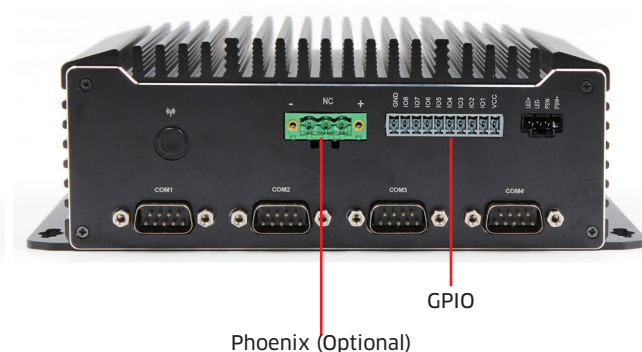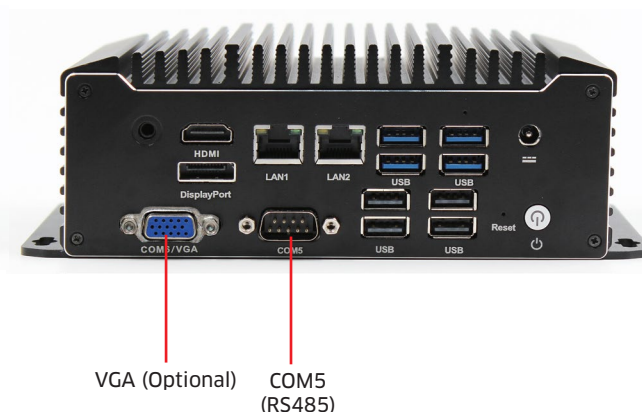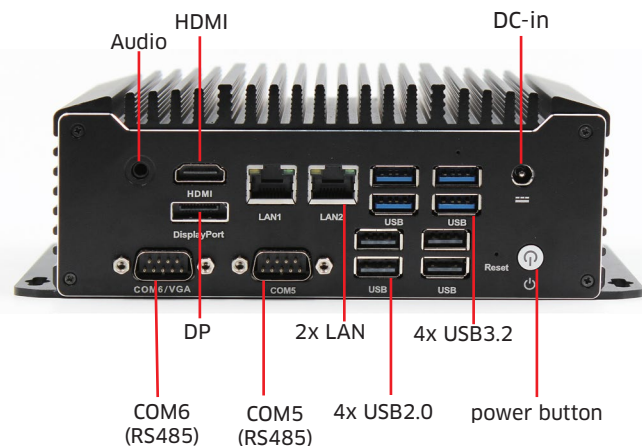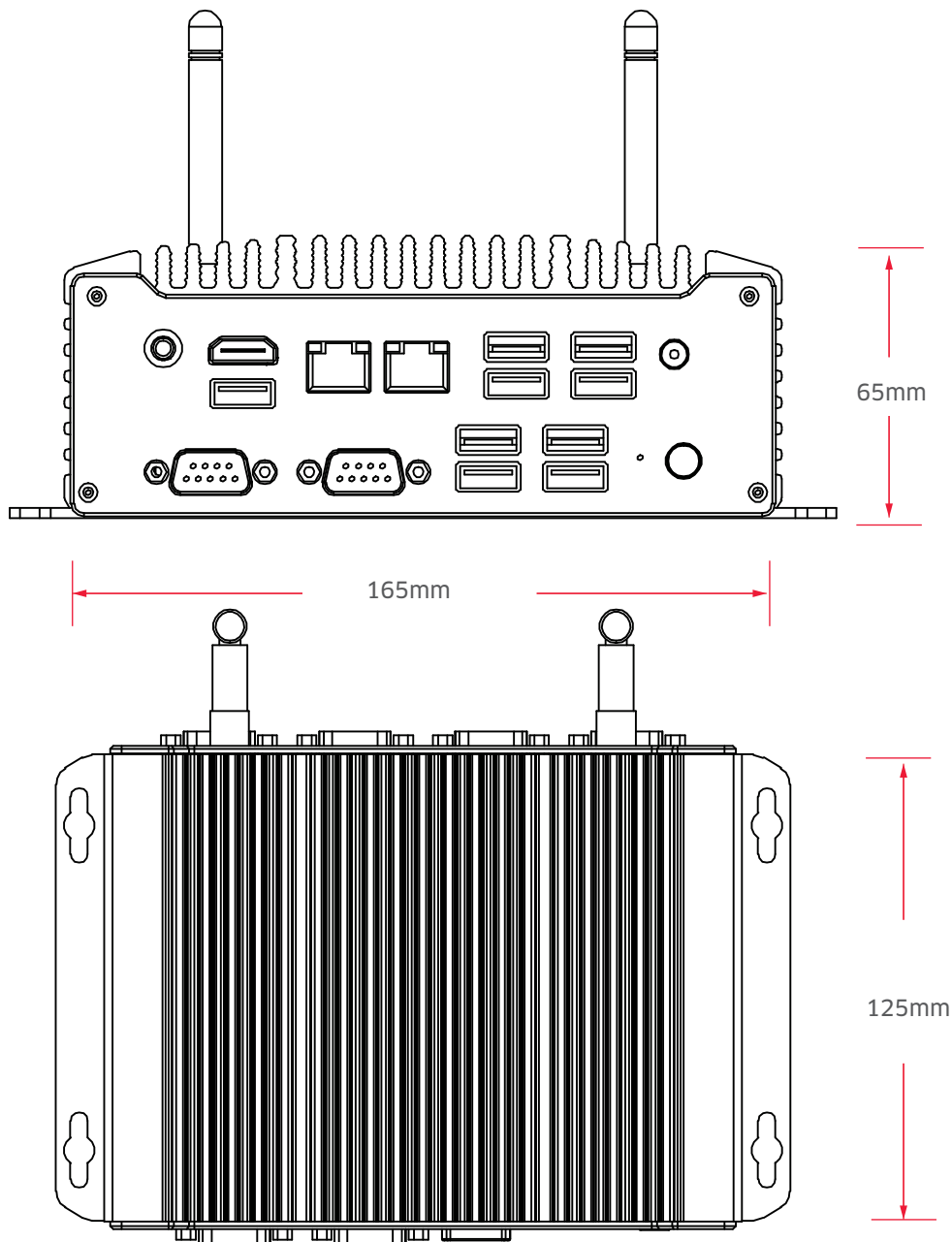
H/W Monitor   Watchdog

GPIO   Brightness

I/O Interfaces

Audio   HDMI   DC-in

HDMI

DisplayPort   LAN1   LAN2   USB   USB

Reset

COM6/VGA   COM5   USB   USB

DP   2x LAN   4x USB3.2

COM6
(RS485)   COM5
(RS485)   4x USB2.0   power button

HDMI

DisplayPort   LAN1   LAN2   USB   USB

COM5/VGA   COM5   USB   USB   Reset

VGA (Optional)   COM5
(RS485)

COM1   COM2   COM3   COM4

COM 1-4
(RS232)

COM1   COM2   COM3   COM4

GPIO

Phoenix (Optional)

Technical Specifications

Processor	Comet Lake U	i3-10110U	i5-10210U	
	Base Frequency	2.1GHz	1.6 GHz	
	Max Turbo Frequency	4.1GHz	4.2 GHz	
	Cache	4MB	6MB	
	Whiskey Lake U	Pentium 5405U	Celeron 4205U	i3-8145U
	Base Frequency	2.3 GHz	1.8 GHz	2.1 GHz
	Max Turbo Frequency	/	/	3.9 GHz
	Cache	2MB	2MB	4MB
	TDP	15W		
	BIOS	AMI UEFI BIOS		
Memory	Type	Dual Channel SO-DIMM DDR4		
	Max capacity	64GB		
Display	GPU	Integrated Intel® UHD Graphics based on CPU		
	Display via	HDMI+DP+VGA optional		
Ethernet	Speed	10/100/1000Mbps		
	Controller	1x Intel® i210 + 1x Intel® i219		
	Interface	2x RJ45		
	Wake on LAN	Yes		
Audio	Audio codec	Realtek HD		
	Interface	1xCTIA 2-in-1 Audio Jack		
Hardware		System temperature, Onboard voltage, Watchdog, Auto power on		
Storage	M.2	1x M.2 for 2242 SSD/4G		
	SATA	1x SATA3.0		
Expansion	M.2	1x M.2 for Wi-Fi		
Other I/O	COM	Default: 2xRS485 +4xRS232		
		Optional: 1xRS485+VGA +4xRS232		
	USB2.0	4		
	USB3.2	4		
Dimension	Size	165mm x 125mm x 65mm		
Power	Standard input	12V/19V DC-IN		
	Phoenix input	16-30V Phoenix input optional		
	Peripheral Input	For Fan and SATA		
	LED Indicator	Power indicator		
Temperature	Operating Temp.	-20℃ to 60℃		
	Storage Temp.	-40℃ to 80℃		
Cooling		Passive		
Operating System		Win7/8/10 32/64bit, Linux 32/64 bit		

Dimensions

65mm

165mm

125mm

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