AXWL-10

Intel® Whiskey Lake-U Based Fanless Embedded Industrial PC

Features

- Developed on the Intel® Whiskey Lake Platform Celeron 4205U, i3-8145U, i5-8265U, i7-8565U
- 2 × SO-DIMM slot for memory up to 64GB
- Intel® UHD Graphics 610 /620 for ultra HD display and multiple displays via HDMI, DP, and VGA
- Rich I/O ports: 3 × USB3.0, 5 × USB2.0, 2 × LAN, 5 × COM, 1 × HDMI, 1 × Display Port, 1 × VGA, 1 × Line-out, 1 × Mic-in, 1 × DC-in
- Fanless design and low power consumption
- High quality aluminium enclosure
- TPM2.0 supported (optional)

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Introduction

The AXWL-10 is a small form factor fanless embedded system. Built with the Intel® Whiskey Lake platform, it supports Intel® Celeron™ 4205U and Core™ i3-8145U, i5-8265U, i7-8565U, which supports ultra high-definition display. This system carries two DDR4 SO-DIMM slots with a total maximum capacity of 64GB to add higher band-width and lower latencies for processes. This computer also features 1 x HDMI, 1 x DisplayPort, and 1 x VGA, supporting multiple independent playback.

This embedded system has aluminum enclosure, and is designed to be fanless and compact, which makes it ideal for space-sensitive applications. It also has rich interfaces as 5 x USB2.0, 3 x USB3.0, 5 x COM, 1×DC-in, Mic-in and Line-out, catering to all the requirements in the market. This Whiskey Lake based system is designed for various application as, but not limited to, automation, network security, communication and transportation, health-care, and retail.

Linux™

ubuntu
Linux
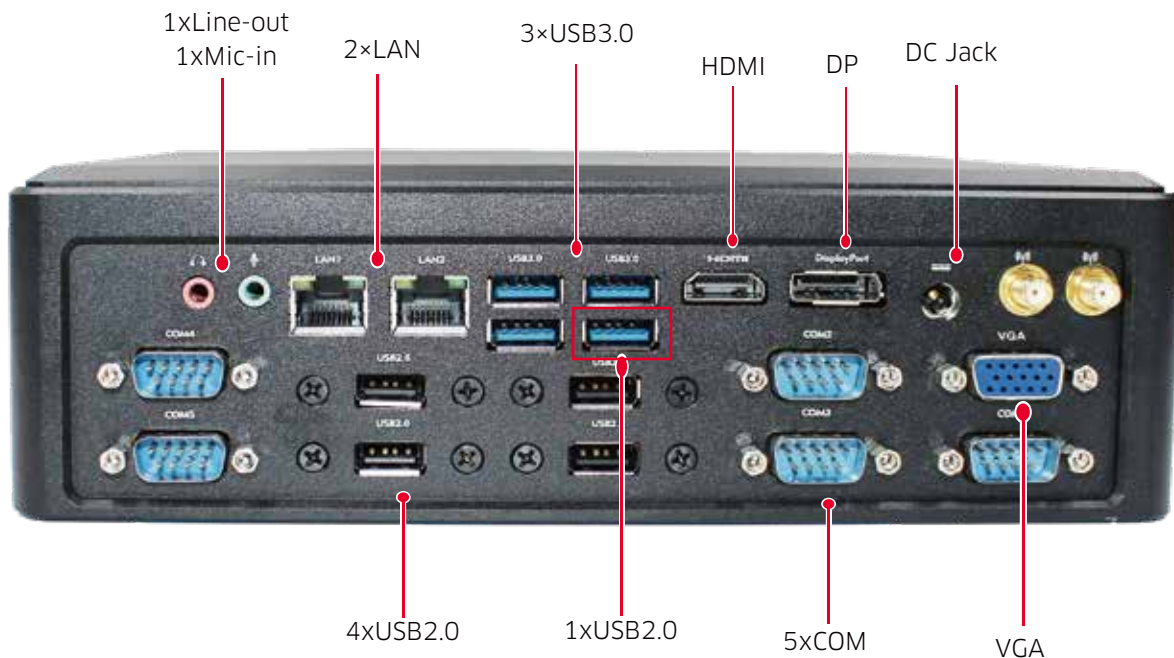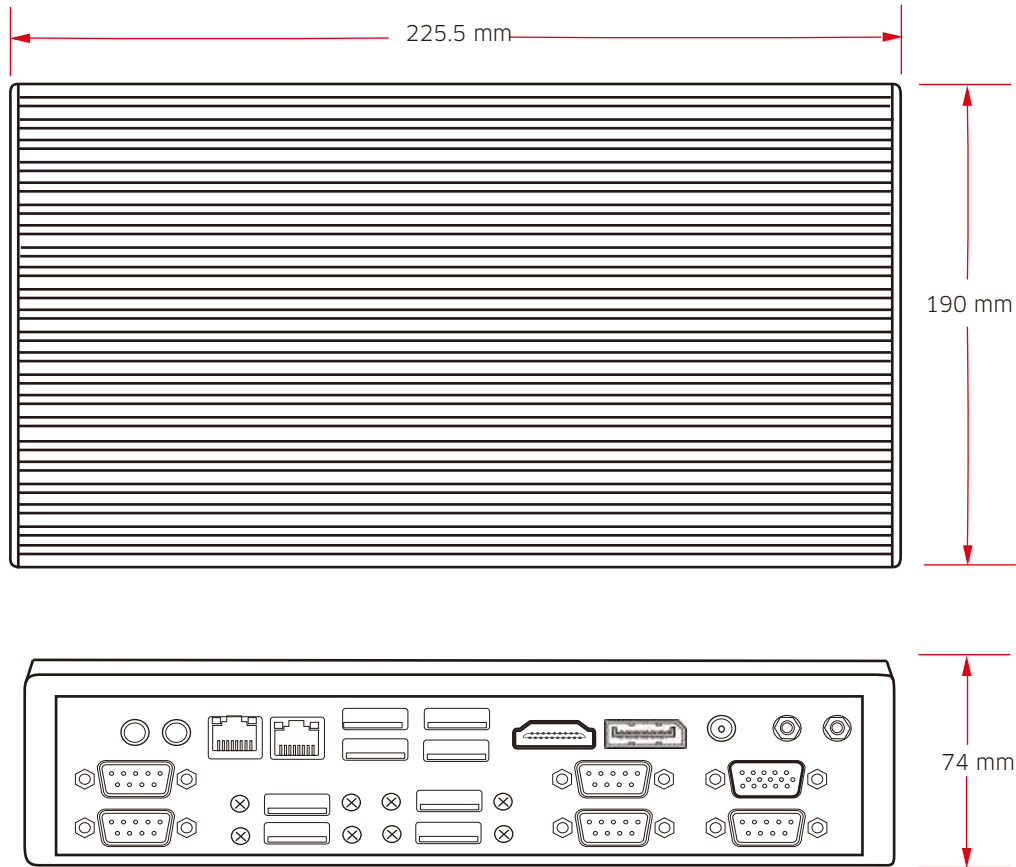
Windows 10

H/W Monitor   Watchdog

GPIO   Brightness

I/O Interfaces

1xLine-out
1xMic-in

2×LAN

3×USB3.0

HDMI

DP

DC Jack

4xUSB2.0

1xUSB2.0

5xCOM

VGA

Technical Specifications

Processor	CPU	Celeron 4205U	i3-8145U	i5-8265U	i7-8565U
	Base frequency	1.8GHz	2.1GHz	1.6GHz	1.8GHz
	Max turbo frequency		3.9GHz	3.9GHz	4.6GHz
	Cache	2MB	4MB	6MB	8MB
	BIOS	AMI 16MB UEFI BIOS			
Memory	Type	Dual Channel 2×DDR4-2400MHz (2133MHz if Celeron on board)			
	Capacity	64GB			
Display	GPU	Intel UHD Graphics 610/620 (Based on CPU)			
	Interface	HDMI 1.4 +DP 1.2 + VGA			
	Multiple display	HDMI + DP + VGA			
Ethernet	Speed	10/100/1000Mbps			
	Controller	2 x intel i211			
	Interface	2×RJ45			
	Wake on LAN	Yes			
Audio	Audio Codec	Realtek HD ALC662			
	Interface	Line-out, Mic-in, audio header, amplifier header			
Storage	M.2	1×M.2 for Wi-Fi			
		1×M.2 for 4G/2242 SSD or 2280 SSD			
	SATA3.0	2×SATA3.0 / (only 1 SATA1 if Celeron onboard)			
Rear Panel I/O	Audio	1×Line-out, 1×Mic-in			
	LAN	2			
	USB	3 x USB3.0 + 5 x USB2.0			
	HDMI	1			
	DP	1			
	VGA	1			
	COM	5			
Intenal I/O	TPM 2.0	Onboard, optional			
	COM	5 x RS232 / 1×RS485			
	I/O	8 x GPIO			
	PCIe	1 x PCIe 4x			
	LPT	1 x JLPT			
	PS/2	1 x PS2_H			
Power	Standard port	12V DC-in			
Dimension	Size	225.5mm x 190mm x 74mm (LxWxH)			
Weight	Net weight	TBD			
Environment	Operating temp.	-20 ℃~60 ℃			
	Storage temp.	-40 ℃~80 ℃			
Operating System		Windows 10 64bit, Linux 64bit			

Dimensions

Ordering Information

Model	CPU	Memory	VGA	HDMI	DP	COM	LAN	Audio	SATA	M.2	4G	Wi-Fi	USB3.0	USB2.0	Power	Cooling
AX4205U-B0	Celeron 4205U	2 × DDR4	1	1	1	5	2	Yes	1	2	Optional	Optional	3	5	DC-in	Passive
AX8145U-B0	i3-8145U	2 × DDR4	1	1	1	5	2	Yes	2	2	Optional	Optional	3	5	DC-in	Passive
AX8265U-B0	i5-8265U	2 × DDR4	1	1	1	5	2	Yes	2	2	Optional	Optional	3	5	DC-in	Passive
AX8565U-B0	i7-8565U	2 × DDR4	1	1	1	5	2	Yes	2	2	Optional	Optional	3	5	DC-in	Passive

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SHENZHEN MAXTANG COMPUTER CO. LTD.

6/F, Bldg 3, Honghui Indl Park, Liuxian 2nd Road, Bao'an Dist, Shenzhen, China 518101

Tel.: +86 755 86143003 I Fax: +86 755 86143003 I sales@datangpc.com

www.maxtangpc.com