

VHWL-30

Powerful Mini PC with 8th Generation Intel®
U Series Core-i and Celeron Processor



Features

- 8th Gen Intel® WhiskeyLake U Processors
- Dual Channel DDR4 memory up to 64GB
- Triple display with HDMI, miniHDMI & DP
- Rich I/O ports: 2x USB3.0, 4x USB2.0, 2x LAN, 1x COM, SIM Slot
- Wide expansions: 1x M.2 for SSD, 1x M.2 for SSD or 4G, 1x M.2 WiFi
- Thin Fanless design and Low power consumption
- TPM 2.0 supported (optional)



Great Value with Versatility and Next Generation Uncompromising Performance

Product Introduction

The VHWL-30 is embedded with the 8th Generation Intel Whiskey Lake U series processors, i3-8145U, i5-8265U, and Celeron 4205U. With up to four cores and eight threads, it provides ultimate performance and blazing fast connectivity with integrated Gigabit Wi-Fi.

This system carries two DDR4 SO-DIMM slots with a total maximum of 64GB to add higher bandwidth and lower latencies for processors. That being said, this computer features M.2, which makes it a good choice for faster data transportation application.

This system also features multiple display via 1 display port, 1 HDMI, and 1 mini HDMI. It has 2 Intel® i211 and Intel® i219 Gigabit LAN, 4 USB3.0, and 2 USB2.0 interfaces, catering to most requirements in the market. This system can deliver incredible performance with very low power consumption.

This system also supports premium 4K UHD videos and Dolby Vision™ HDR and Dolby Atmos® immersive audios, delivering better entertainment experience than ever.



H/W Monitor



Watchdog



GPIO



Brightness

CPU Options

Intel® Celeron® 4205U Processor

1.80 GHz, 2M Cache, Dual Core

Intel® Core i3-8145U Processor

2.10GHz with Max turbo frequency 3.90 GHz, 4M Cache, Dual Core

Intel® Core i5-8265U Processor

1.60GHz with Max turbo frequency 3.90 GHz, 6M Cache, Quad Core



Key features



Intel 8th Generation Processors

The VHWL30 series is designed with Intel® 8th Gen Core-i and Celeron processors. With new processors up to 4 cores and upto 8 threads, the platform supports up to 64GB (32GB x 2) of DDR4-2400(2133) MHz memory, integrated UHD graphics to support onboard graphics output for outstanding graphics performance.

Flexible Storage Expansion



It features a storage design with a M.2 for NVMe SSD, or a combination of both for added flexibility. So whether you're after larger storage capacities to store your music, videos, photos, apps and other data; or faster data access speeds, there is enough to suit your needs.

VESA Mount ready

The VHWL-30 series is VESA mount compliant and allows for versatile integration into hardware systems. This space-saving capability is well-suited for digital signage and kiosk applications with limited space.

Triple independent 4K UHD Display Experience

The VHWL-30 features one HDMI (version 1.4) output to support 4K 60Hz resolution (4096 x 2160) at a maximum of 60FPS and one Display Port and One Mini HDMI for high dynamic range (HDR) video, which allows viewers to enjoy the vivid streaming, higher contrast ratio, and more accurate color from HDR-compatible displays and TVs.

Extensive Connectivity options

The VHWL-30 series features two USB 3.0 ports, four USB 2.0 ports as well as one SIM Slot for convenient, flexible connectivity options.



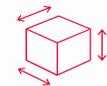
Operable in -20~60 C

The VHWL-30 uses industrial capacitors in order to meet the environmental operation demands of commercial applications.

Silent fanless design

VHWL-10 has a fanless design with a high performance CPU that ensures it operates in total silence even under full load so you can fully enjoy your music and movies. In fact, it's so silent you can even place it in your bedroom. Its ideal for your home and office.

Ultra thin Design



The pc is in a stylish metal case that takes up very little room to help you maintain a clutter-free workspace

Desktop Performance, Miniaturized

VHWL-30 crams all your home and industrial computing needs in a compact, lightweight mini PC that's only slightly larger than your wallet. It combines desktop-like processing performance with incredible energy-efficiency

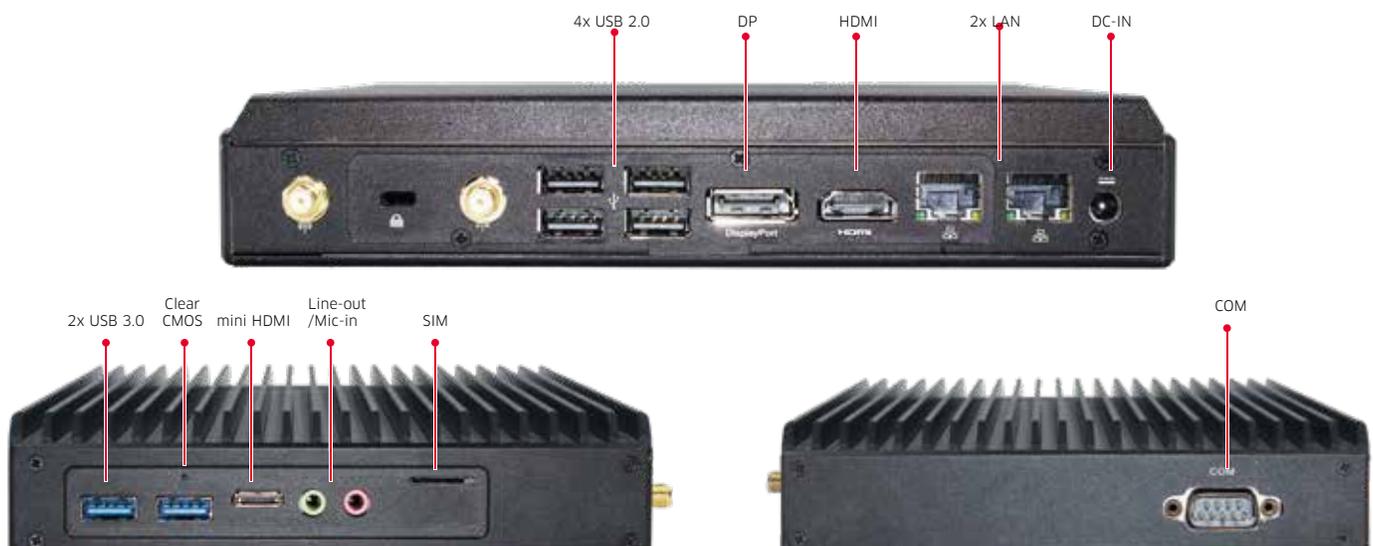
Operating System Support

- Windows 10 64bit
- Linux 64 bit

Quality you can trust

Fully-tested for extreme reliability, wide compatibility and assured safety as each unit being subjected to a series of reliability and quality tests to ensure they meet our exacting standards.

I/O Interfaces

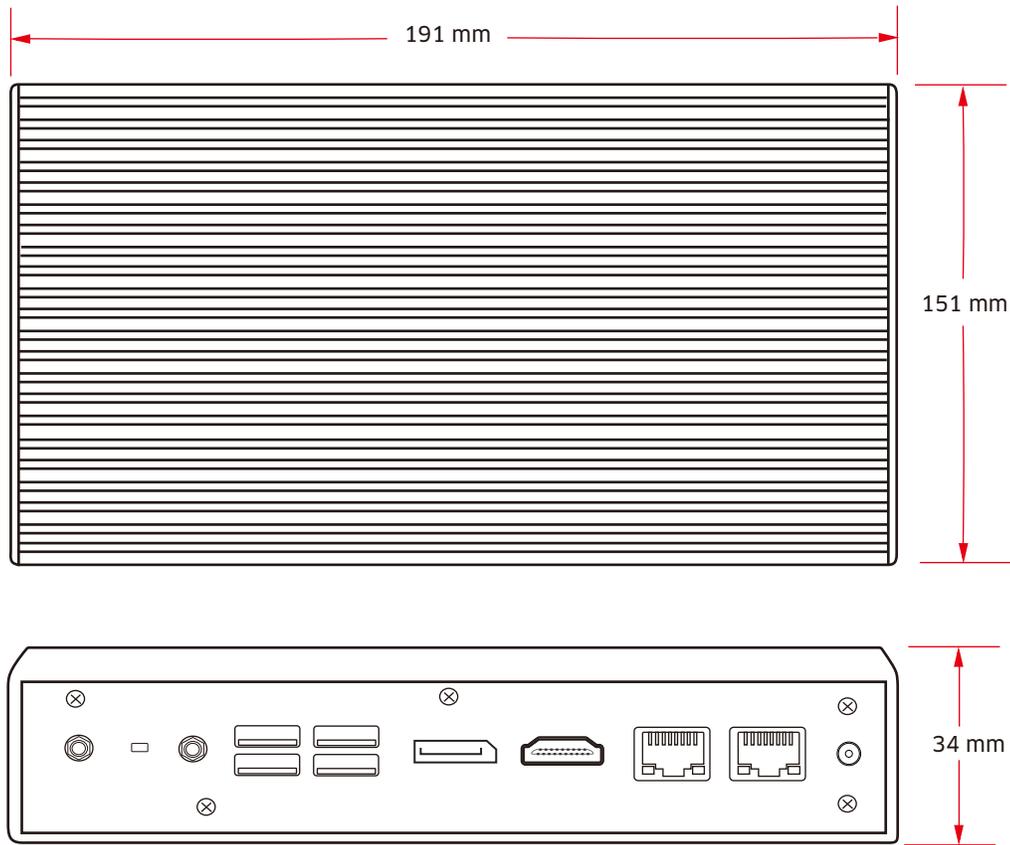


Technical Specifications

Processor	CPU	4205U	i3-8145U	i5-8265U
	Base frequency	1.80 GHz	2.10 GHz	1.60 GHz
	Max turbo frequency		3.90 GHz	3.90 GHz
	Cache	2 MB	4 MB	6 MB
	BIOS	AMI 16MB UEFI BIOS		
Memory	Type	2 x SO-DIMM DDR4-2400MHz (2133MHz for Celeron CPU)		
	Capacity	64 GB		
Display	GPU	Intel UHD graphics 610/620 (based on CPU)		
	HDMI	HDMI 1.4 + mini HDMI 2.0 (without audio)		
	DP	DP 1.2		
	Multiple display	HDMI + mini HDMI + DP		
Ethernet	Speed	10/100/1000 Mbps		
	Controller	1 x intel i211+ 1 x intel i219		
	Interface	2 x LAN		
	Wake on LAN	Yes		
Audio	Audio codec	Realtek HD ALC662		
	Interface	Line-out, mic-in, audio header		
Hardware	CPU	CPU system temperature, onboard voltage, watchdog, auto power on		
Storage	M.2	1 x M.2 for Wi-Fi		
		1 x M.2 for 4G or 2242 SSD		
		1 x M.2 for 2280 NVMe SSD (SATA optional)		
Front Panel I/O	Audio	1 x Line-out, 1 x Mic-in		
	LAN	2		
	USB3.0	2		
	USB2.0	4		
	DP	1		
	HDMI	2		
	SIM	1		
	COM	1		
Internal I/O	TPM 2.0	Onboard, optional		
Power	Standard port	19V DC-in		
Dimension	Size	191 mm x 151 mm x 34 mm (LxWxH)		
Weight (kg)	Net weight	TBD		
Environment	Operating temp.	-20 °C – 60 °C		
	Storage temp.	-40 °C – 80 °C		
OS		Win10 64bit, Linux 64bit		

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

Dimensions



Ordering Information

Model	CPU	TDP	Memory	HDMI	DP	LAN	Audio	USB3.0	USB2.0	M.2	4G	Wi-Fi	Power	Cooling
VH4205U-B0	Celeron 4205U	15W	2xSO-DIMM DDR4	2	1	2	Yes	2	4	3	Optional	Optional	DC	Passive
VH8145U-B0	i3-8145U	15W	2xSO-DIMM DDR4	2	1	2	Yes	2	4	3	Optional	Optional	DC	Passive
VH8265U-B0	i5-8265U	15W	2xSO-DIMM DDR4	2	1	2	Yes	2	4	3	Optional	Optional	DC	Passive

Copyright © 2018 Maxtang Technology Co. Ltd., All rights reserved. All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate however, no responsibility is assumed for inaccuracies. Maxtang and the Maxtang logo are all other trademarks or registered trademarks are the property of their respective owners and are recognized.