

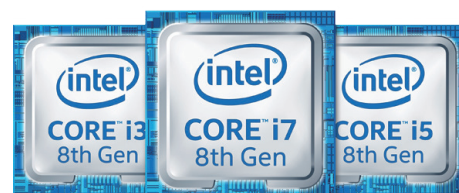
# UM Series

Intel® Whiskey Lake-U Based Fanless Embedded Industrial PC



## Features

- Intel® Whiskey Lake-U Core and Celeron CPU
- Dual channel DDR4 RAM up to 64GB
- Faster SSD storage (NVMe+mSATA)
- Triple Gigabyte LAN networking
- 3x USB2.0, 3x USB3.0, 4x COM
- VGA & HDMI 2.0
- Power: 9V-36V DC input
- All-aluminum chassis



## Introduction

The Maxtang UM series is a series of embedded industrial PC based on the Intel® Whiskey Lake-U Core and Celeron processors, including Celeron 4205U, i3-8145U, i5-8265U, i7-8565U, and i7-8665U. The high-performance processors allow you to handle all kinds of complicated computing tasks in your work and daily life.

### GREAT HEAT DISSIPATION

The low-TDP processor and an entirely new thermal design of the chassis allow you to enjoy every bit of the computing performance without worrying the system breakdown.

### ULTRA VIVID DISPLAY

With new level of graphics and compute performance, a full-sized HDMI2.0 port means you can enjoy ultra HD video up to 60 fps and provides you with stunning immersive visual experience.

### RICH INTERFACES

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H/W Monitor



Watchdog

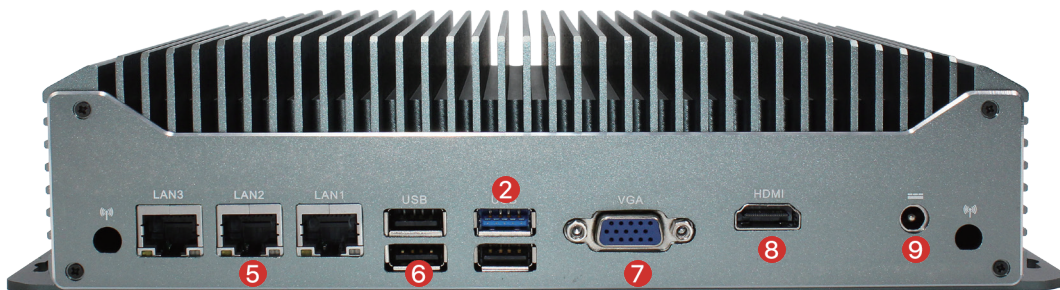


GPIO



Brightness

## I/O Interfaces



① Line-out+mic-in

② USB3.0

③ COM

④ Power button

⑤ LAN

⑥ USB2.0

⑦ VGA

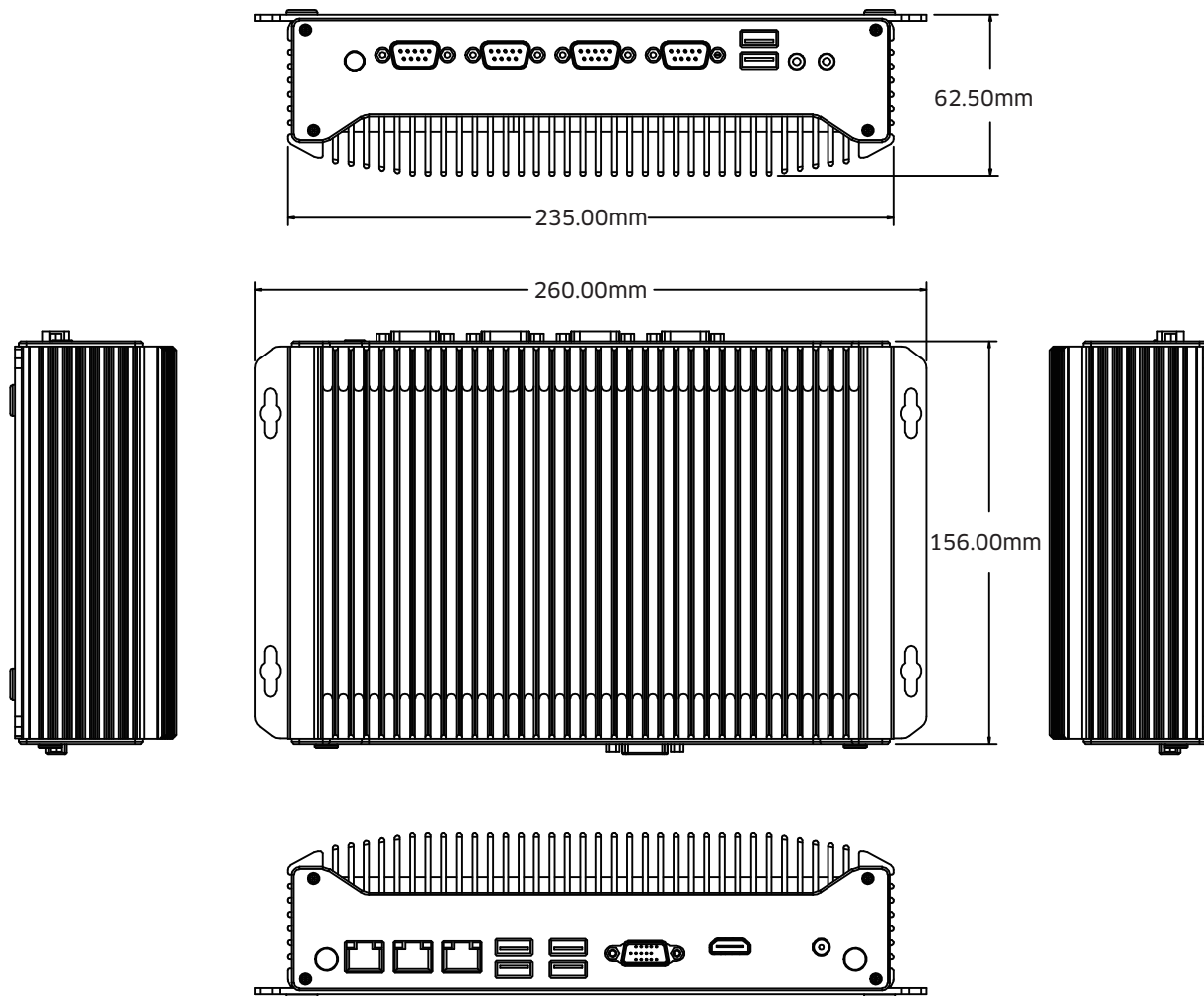
⑧ HDMI

⑨ DC-in

## Technical Specifications

Processor	CPU	4205U	i3-8145U	i5-8265U	i7-8565U/8665U
	Core	2	2	4	4/4
	Base frequency	1.8GHz	2.1GHz	1.6GHz	1.8GHz/1.9GHz
	Turbo frequency	/	3.9GHz	3.9GHz	4.6GHz/4.8GHz
	Cache	2MB	4MB	6MB	8MB
	TDP	15W	15W	15W	15W
	BIOS	AMI 16MB UEFI BIOS			
Memory	Type	2x SO-DIMM DDR4			
	Max capacity	64 GB			
Display	GPU	Intel UHD Graphics 610/620 (Based on CPU)			
	HDMI	HDMI 2.0			
	VGA	VGA			
	Multiple display	HDMI+ VGA			
Ethernet	Speed	10/100/1000 Mbps			
	Controller	2x intel i210 + 1x intel i219			
	Interface	3x RJ-45			
Audio	Audio codec	Realtek HD ALC662			
	Interface	Line-out, mic-in, audio header, amplifier header			
Hardware	CPU system temperature, onboard voltage, watchdog				
Storage	M.2	1x M.2_M for 2280 SSD (NVMe/SATA)			
	mSATA	1x mSATA			
	SATA	1x SATA			
Expansion	M.2	1x M.2_E for NGFF Wi-Fi			
External I/O	COM	4			
	USB	3 x USB2.0 + 3 x USB3.0			
	LAN	3			
	HDMI	1			
	VGA	1			
	Audio	1 x line-out + 1 x mic-in			
	DC-in	1			
	Dimension	Size	260 mm x 156 mm x 62.5 mm		
Power	Standard port	9V-36V DC-in			
Temperature	Operating Temp.	-20°C to 60°C			
	Storage Temp.	-40°C to 80°C			
Cooling	Passive				
Operating System	Windows 10, Linux				

## Dimensions



## Ordering Information

Model#	CPU	Wi-Fi
UMWL-4205U	Celeron 4205U	Optional
UMWL-8145U	i3-8145U	Optional
UMWL-8265U	i5-8265U	Optional
UMWL-8565U	i7-8565U	Optional
UMWL-8665U	i7-8665U	Optional

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