

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

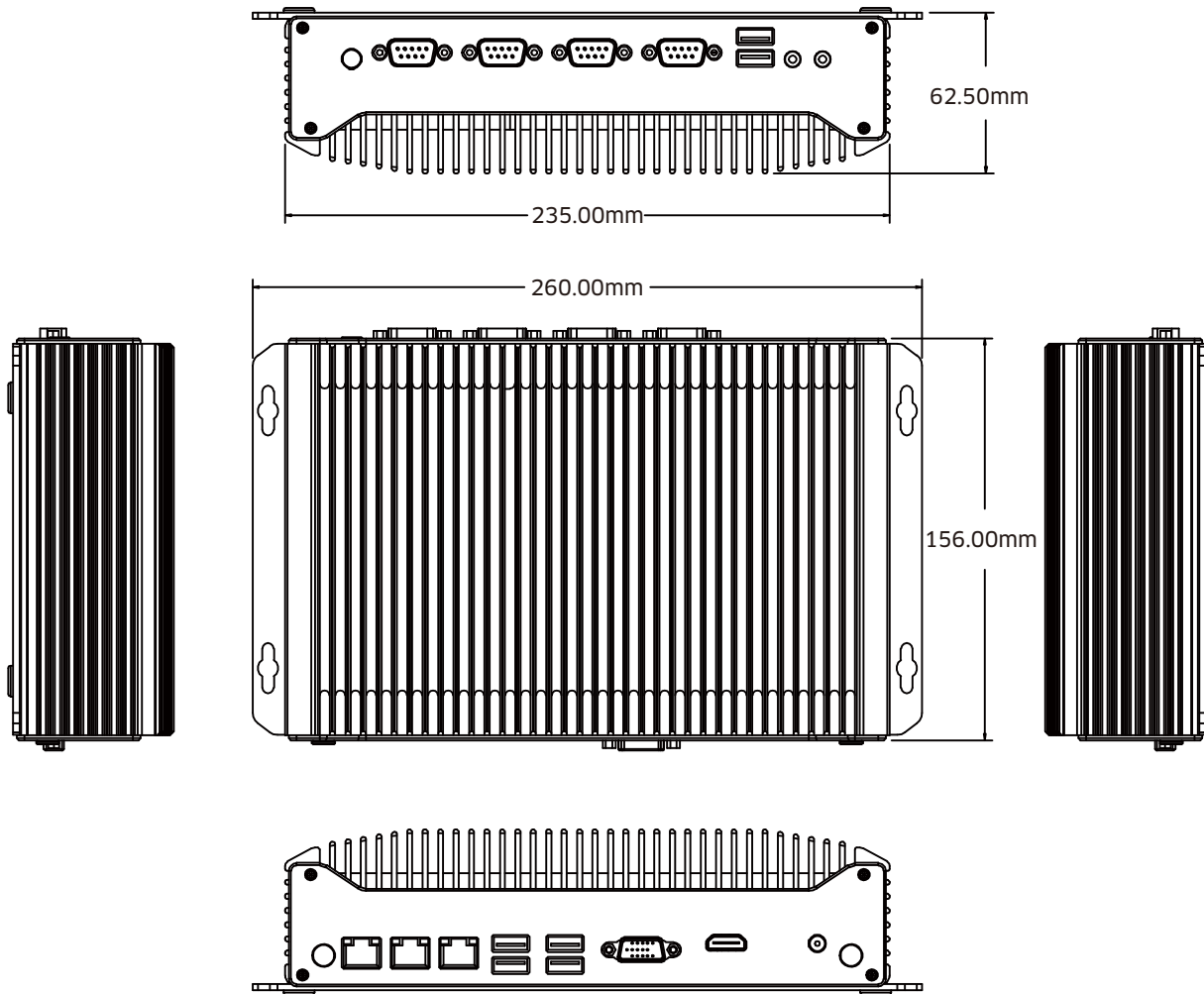


- | | | |
|-------------------|----------|----------|
| ① Line-out+mic-in | ② USB3.0 | ③ COM |
| ④ Power button | ⑤ LAN | ⑥ USB2.0 |
| ⑦ VGA | ⑧ HDMI | ⑨ DC-in |

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 (NMVe/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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