

UMIF Series

Intel® Tiger Lake-U/Whiskey Lake-U series Processor based
Industrial Controller for Edge Computing



Features

- CPU: Intel® Tiger Lake-U/Whiskey Lake-U Series Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64GB
- Display via: Intel® Integrated Graphics via DVI-D+HDMI2.0
- I/O Ports: 4xUSB3.2, 4xUSB2.0, 2xLAN, 6xCOM
- Ethernet: 2x Intel i210(1.0GbE)+Intel i225/i226(2.5GbE)
- Storage: mSATA , M.2 for SATA,
- Expansion: M.2 for Wi-Fi, Mini PCIe, M.2 for 4G/5G
- Power: 24V DC-in



IoT Solutions
Alliance

Industrial Solution
Builders Specialist

Maxtang[®]

MAXIMIZING YOUR COMPUTING PRODUCTIVITY

Introduction

The UMIF series products from Maxtang subbrand U2 edge computing are the ultimate choice for those seeking top-of-the-line industrial edge controllers. Equipped with 8th and 11th-generation Intel® Core™ processors, these controllers offer unmatched computing power and performance. Their modular design ensures that they can be tailored to meet specific usage requirements, providing unparalleled flexibility and versatility.

The built-in Mini PCIE interface further enhances the customization capabilities of these controllers, allowing for the seamless configuration of a variety of peripherals. Additionally, the built-in USB interface ensures the utmost security for your software, protecting against potential threats and vulnerabilities. The high real-time characteristics of these controllers further reinforce their reliability, making them ideal for industrial control applications.



H/W Monitor



Watchdog

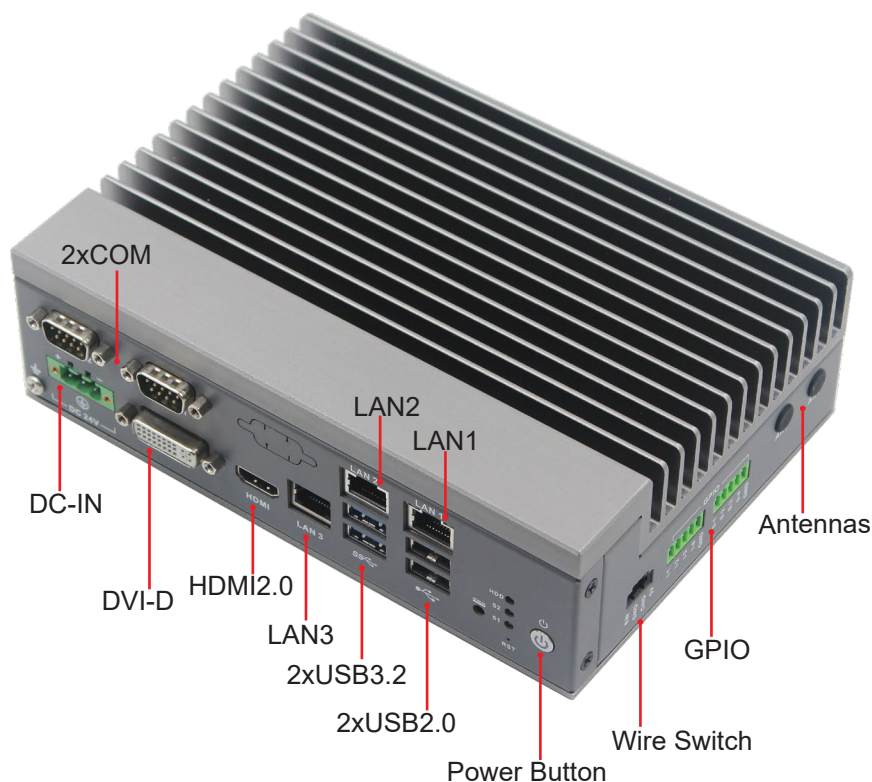


GPIO



Brightness

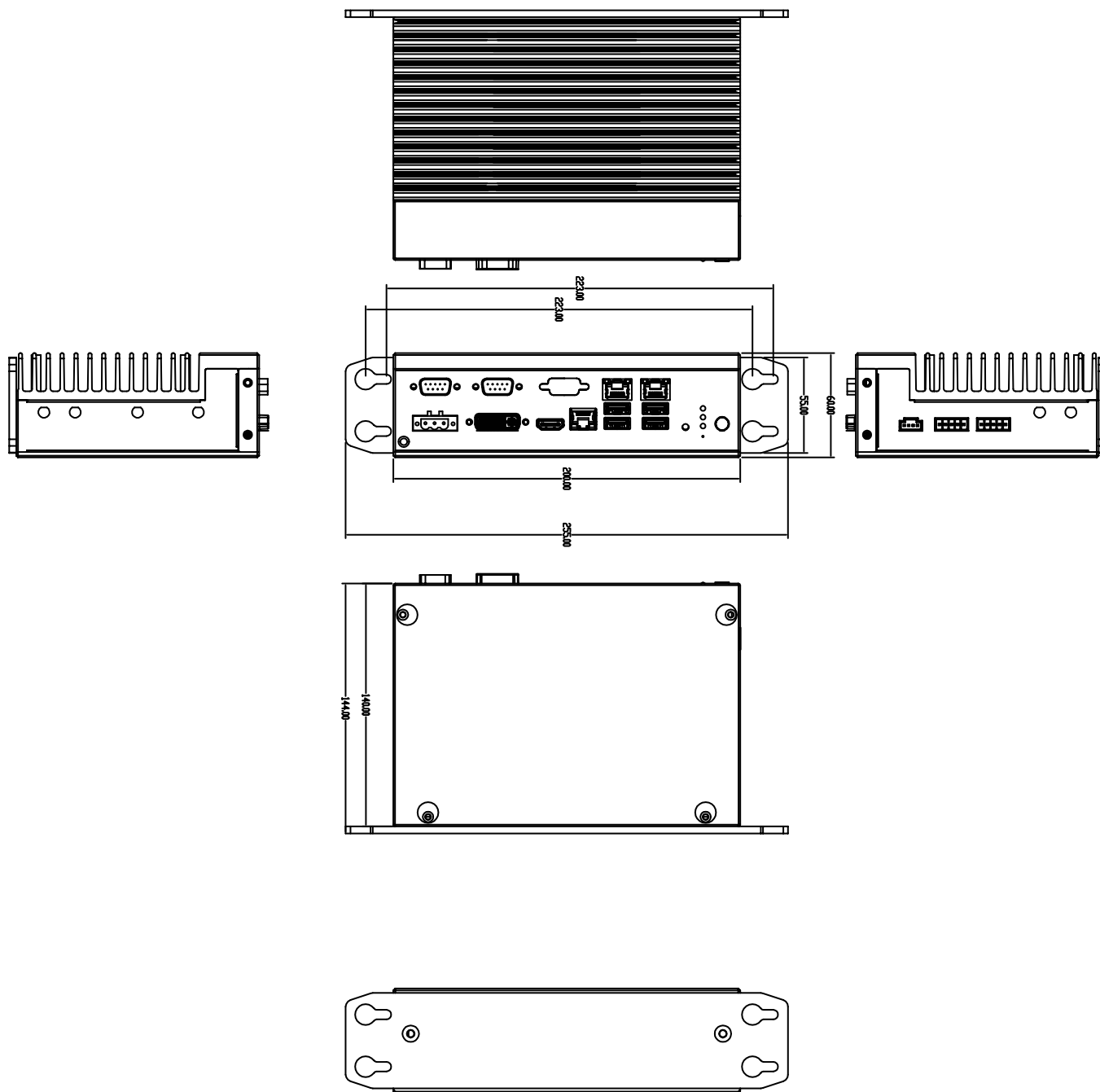
I/O Interfaces



Technical Specifications

Processor	CPU	11th Gen Intel Celeron/Core-i3/i5/i7(Tiger Lake-U Series) 8th Gen Intel Celeron/Core-i3/i5/i7(Whiskey Lake-U Series)
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR4
	Max.Capacity	64GB
Display	FRAM	Built-in 1M Ferroelectric RAM Optional
	GPU	Integrated Intel UHD/Iris® Xe Graphics
Ethernet	Interface	1x DVI-D + 1x HDMI2.0
	Controller	1x Intel i225/i226 Data Rate Per Port: 2.5GbE 2x Intel i210 Data Rate Per Port: 1.0GbE
	Interface	3xRJ45
Hardware Storage	Wake on LAN	Yes
		CPU system temperature, onboard voltage, watchdog, and auto power on
Expansion	M.2	1xM.2 for 2242/2280 SATA SSD
	mSATA	1x mSATA
I/O Interface	M.2	1x M.2 for WiFi
	M.2	1x M.2 for 4G/5G
	Mini PCIe	1
Dimension	COM	2xCOM: 2*RS232(can be set as RS485 through jumper)
	USB3.2	2
	USB2.0	2
	GPIO	8-bit
	Wire Switch	1
Power	Size	255mm x 144mm x 60mm
	Cooling	Passive/Active (varies per CPU model)
Working Environment	LED Light Indicator	1 x power supply, 1 x hard disk, 2 x programmable indicators
	Standard Port	24V DC-in
	Peripheral Input	For Fan and SATA
Operating System	Operating Temp.	-20°C ~60°C
	Storage Temp.	-40°C ~85°C
	Operating Humidity	5% to 95% (non-condensing)
	Protection Level	IP20
	Vibration Testing	5Grms/5~500Hz might varies (with internal SSD)
	Shock Testing	50G/half-sine/continuous 20ms (with internal SSD)
	ESD Testing	±8 kV air discharge on all surfaces ±6 kV contact discharge on exposed conductive surfaces
Operating System		Windows 64 bit, Linux 64 bit

Dimension



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