

# MIG 2000

10th Gen Intel® Core™ i9/i7/i5/i3 Processor (Comet Lake) AI Computing System with NVIDIA® Tesla®/Quadro®/GeForce®/AMD Radeon™ Graphics



^ Autonomous Vehicles



- 10-core 10th Gen Intel® Core™ i9/i7/i5/i3 Processor (CML-S) running with Intel® H410 chipset supports max 65W TDP CPU
- 0°C to 60°C Operating Temperature
- 2 DDR4 2933MHz Memory supports up to 64GB
- DC 9V to 55V wide range Power Input
- Expansion : 1 Mini PCIe, 1 PCIe x16, 1 M.2 Key E
- PCIe x16 expansion supports up to 750W Power Budget for independent 2-slot graphics card

^ Medical Imaging



^ Machine Vision

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VHub

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## Specifications

### System

Processor	10th Gen Intel® Core™ i9/i7/i5/i3 Processor (Comet Lake-S)
Chipset	Intel® H410
BIOS	AMI
SIO	Nuvoton NCT6116D
Memory	2 DDR4 2933MHz SO-DIMM, up to 64GB
OS	Windows 10, Linux

### I/O Interface

Serial	2 COM RS-232/422/485
USB	4 USB 3.0
LED	HDD, Power

### Expansion

M.2	1 M.2 Key E Socket (2230, PCIe)
PCIe	1 PCIe x16 Slot
Mini PCIe	1 Full Size Mini PCIe

### Graphics

Graphics Processor	Intel® UHD Graphics 630
Interface	3 Digital Display : Up to 3840 x 2160 @60Hz

### Storage

SATA	2 SATA III (6Gbps)
M.2	1 M.2 Key M Socket (2280, PCIe x4)

### Audio

Audio Codec	Realtek® ALC887, 5.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out

### Ethernet

LAN 1	Intel® I219V GigE LAN
LAN 2	Intel® I211 GigE LAN

### Power

Power Input	9V to 55V, DC-in
Power Interface	2-pin Terminal Block V+, V-

### Others

HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats
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### Mechanical

Dimensions	162.6mm x 203.6mm x 385.0mm (6.4" x 8.02" x 15.16")
Weight	5.3 kg (11.45 lb)
Mounting	Wallmount by mounting bracket

### Environment

Operating Temp.	-0°C to 60°C (32°F to 147°F)
Storage Temp.	-20°C to 85°C (-4°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @60°C
Shock/Vibration	- IEC 61373 : 2010 - Railway Applications : Rolling Stock Equipment, Shock and Vibration Tests
EMC	CE, FCC, EN50155, EN50121-3-2

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## Order Information

Model	GigE LAN	SSD Tray	PCIe x16	USB 3.0	HDMI	COM	SATA III	System Fan
MIG-2000	2	1	1	4	3	2	2	Y

### CPU List

Series	CPU	GHz	TDP (W)	CPU	GHz	TDP (W)	ECC RAM
Intel® Core™	i9-10900E	4.7	65	i9-10900TE	4.5	35	N/A
	i7-10700E	4.5	65	i7-10700TE	4.4	35	N/A
	i5-10500E	4.2	65	i5-10500TE	3.7	35	N/A
	i3-10100E	3.8	65	i3-10100TE	3.6	35	Y

### Optional Software

VHub AI Developer	AI Development Kit
VHub ROS	AMR Development Kit
VHub EtherCAT	I/O Control Platform

### Accessories

DDR4 32G	Certified DDR4 32GB 2933MHz RAM
DDR4 16G	Certified DDR4 16GB 2933MHz RAM
DDR4 8G	Certified DDR4 8GB 2933MHz RAM
DDR4 4G	Certified DDR4 4GB 2933MHz RAM
PWS-480W-WT	480W, 24V, 90V AC to 305V AC Power Supply, Wide-Temp, IP65
PWS-600W1	600W, 24V, 90V AC to 264V AC Power Supply
PWS-600W-WT	600W, 28.8V, 90V to 305V AC Power Supply, Wide Temperature -40°C to +70°C

## Dimensions & Drawing

Unit : mm (inch)

