



GPU COMPUTING SYSTEM

RCO-6000-CML-4N-2060S

AI Edge Inference Computer w/ LGA 1200 for Intel 10th Gen CPU & W480E PCH, 4 Bay U.2 7mm, RTX 2060S Integrated



Features

- LGA 1200 socket for 10th Gen. Intel® CML S Processor (65W/35W TDP)
- Intel® W480E chipset
- NVIDIA GeForce® RTX 2060 Super Graphics engine based on NVIDIA Turing™ GPU architecture
- 2x DDR4 2666/2933MHz SODIMM. Max. up to 64GB
- 6 Display interface supported by 1x DVI-I, 1x DVI-D, 3x DisplayPort, 1x HDMI
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size Mini PCIe for communication or expansion modules, 2x SIM socket
- 1x Removable 4 Bay NVMe SSD Module with RAID 0, 1, 5 (Support H=7mm)
- 3x 2.5" SATA HDD Bay (1x Internal) and with RAID 0, 1, 5 support
- 1x M.2 (E Key, PCIe x1, USB 2.0, 2230)
- 8x RS-232/422/485 (6x internal), 6x USB 3.2 Gen 2, 3x USB 3.2 Gen 1 (1x internal)
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -25°C to 60°C (35W/65W CPU)
- TPM 2.0 Supported
- UL Listed

Specifications

System

Processor
Support 10th Gen Intel® CML S Processor (LGA 1200, 65W/35W TDP)
-Intel® Xeon® W-1290TE, 10 Cores, 20MB Cache, up to 4.5 GHz
-Intel® Xeon® W-1270TE, 8 Cores, 16MB Cache, up to 4.4 GHz
-Intel® Xeon® W-1250TE, 6 Cores, 12MB Cache, up to 3.8 GHz
-Intel® Core™ i9-10900E, 10 Cores, 20MB Cache, up to 4.7 GHz
-Intel® Core™ i9-10900TE, 10 Cores, 20MB Cache, up to 4.5 GHz
-Intel® Core™ i7-10700E, 8 Core, 16MB Cache, up to 4.5 GHz
-Intel® Core™ i7-10700TE, 8 Cores, 16MB cache, up to 4.4 GHz
-Intel® Core™ i5-10500T, 6 Cores, 12MB Cache, up to 4.2 GHz
-Intel® Core™ i5-10500TE, 6 Core, 12MB Cache, 3.7 GHz
-Intel® Core™ i3-10100T, 4 Cores, 6MB cache, up to 3.8 GHz
-Intel® Core™ i3-10100TE, 4 Cores, 9MB Cache, up to 3.6 GHz

System Chipset Intel® W480E Chipset
LAN Chipset GbE1: Intel I219 (Support Wake-on-LAN and PXE)
GbE2: Intel I210 (Support Wake-on-LAN and PXE)
Audio Codec Realtek ALC888S
System Memory 2x 260-Pin DDR4 2666 /2933MHz SODIMM.
Max. up to 64GB (ECC and Non-ECC)
Graphics Intel® UHD Graphics 630
BIOS AMI 256Mbit SPI BIOS
Watchdog Software Programmable Supports 1-255 sec. System Reset
TPM TPM 2.0

Display

Display Port 3x DisplayPort
DVI 1x DVI-I, 1x DVI-D
HDMI 1x HDMI
Multiple Display 6 Display interfaces

Storage

NVMe 1x Removable Cannister Brick with 2.5" 4 Bay U.2 NVMe SSD (Support H=7mm)
SIM Socket 2x External SIM socket (Mini PCIE attached)
SSD/HDD 1x Internal 2.5" SATA/SSD HDD Bay (support H=9mm)
2x Removable 2.5" SATA HDD Bay (support H=7mm, Hot-swappable)
Support RAID 0, 1, 5, 10

Expansion

M.2 1x M.2 (E Key, PCIe x1, USB 2.0, 2230)
Mini PCIe 2x Full-size Mini PCIe
PCIe 1x PCIe x16 (8-lane, Occupied by GPU)
1x PCIe x4 (1 Lane)

Expansion Modules
Occupied One Universal I/O Slot:
• 4-port GbE module with Intel® I350 Chipset, RJ-45 or M12 connector (PoE optional)
• 2-Port RJ45 10GbE with Intel X710 Chipset
• 4-Port USB with Renesas uPD720201K8 host controller (share PCIe Gen2 x1 bandwidth)
• 1x M.2 for 5G (B Key, PCIe x1, USB 3.0, 3042/3052), Including 2x SIM socket, 1x SIM switch (1x Universal Slot Only)

I/O

Audio 1x Mic-in, 1x Line-out
CAN 2x CAN 2.0 A/B 2-pin Internal header
COM 2x RS-232/422/485 ; 6x RS-232/422/485 (internal)
DIO 8 in / 8 out (Isolated)
LAN 2x RJ45

Universal I/O Bracket	2x Universal I/O Bracket (By mini PCIe interface)
USB	6x USB 3.2 Gen 2 (10 Gbps) 3x USB 3.2 Gen 1 (5 Gbps, 1x Internal) 2x USB 2.0 header (internal)
Others	5x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x PC/Car Mode Switch, 1x Delay Time Switch 1x Removable CMOS Battery 4x 4-Pin Power Connector, 1x 4-PIN FAN Connector

Operating System

Windows	Windows 10
Linux	Linux kernel

Power

Power Adapter	Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A, 220W Optional AC/DC 24V/11.67A, 280W (For GPU/Card Expansion)
Power Mode	AT, ATX
Power Ignition Sensing	Power Ignition Management
Power Supply Voltage	2x Power Input 9-48VDC 12-48VDC for NVMe/GPU EDGEboost Node
Power Connector	5-pin Terminal Block 4-pin Terminal Block for GPU and NVMe EDGEBoost Node (12V requires 4-pin terminal block)
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

Environment

Operating Temperature	-25°C to 60°C (35W/65W CPU)
Storage Temperature	-30°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	UL, CE, FCC Class A
Vibration	With SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 20G, half sine, 11ms

Physical

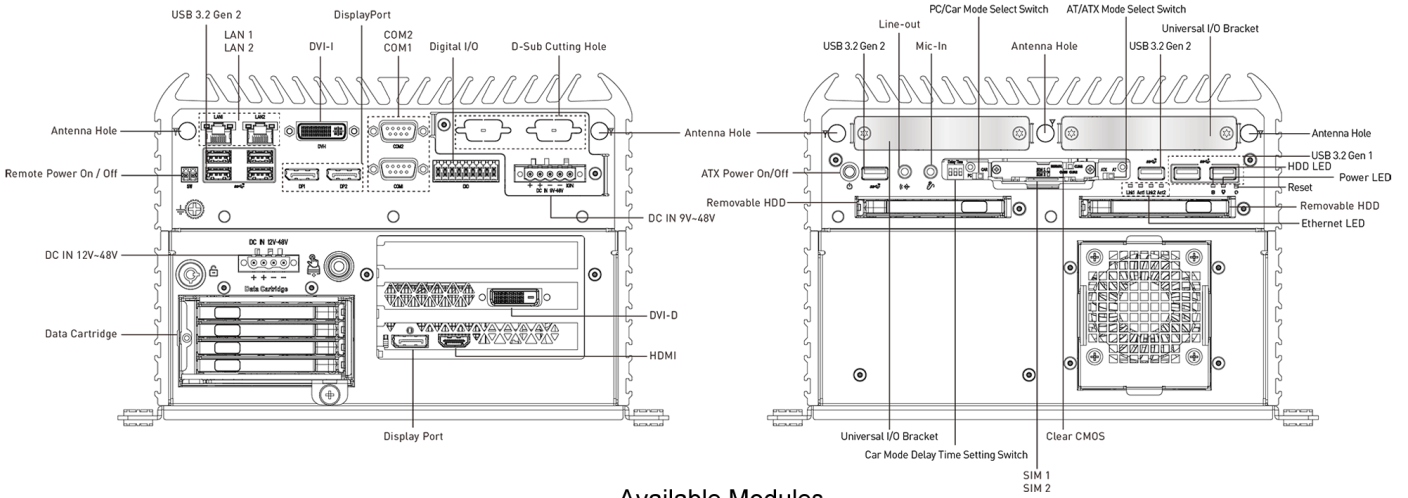
Dimensions	240 (W) x 261 (D) x 166.9 (H) mm
Weights	11.1 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting

• For 10th Gen Intel CPUs configured to run at 65W, operating temperatures will be limited to 60°C.
• 65W CPUs may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 10 cores). Please note, this does not indicate system malfunction or problems in the fanless design. Please consult our embedded engineers for the best configuration to match your application requirements.
• All specifications and photos are subject to change without notice.

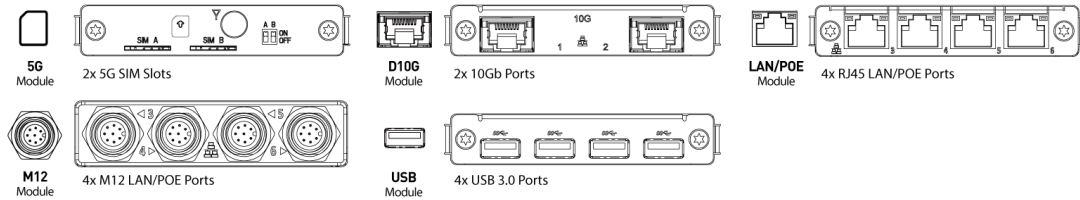


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External I/O Mechanical Layout

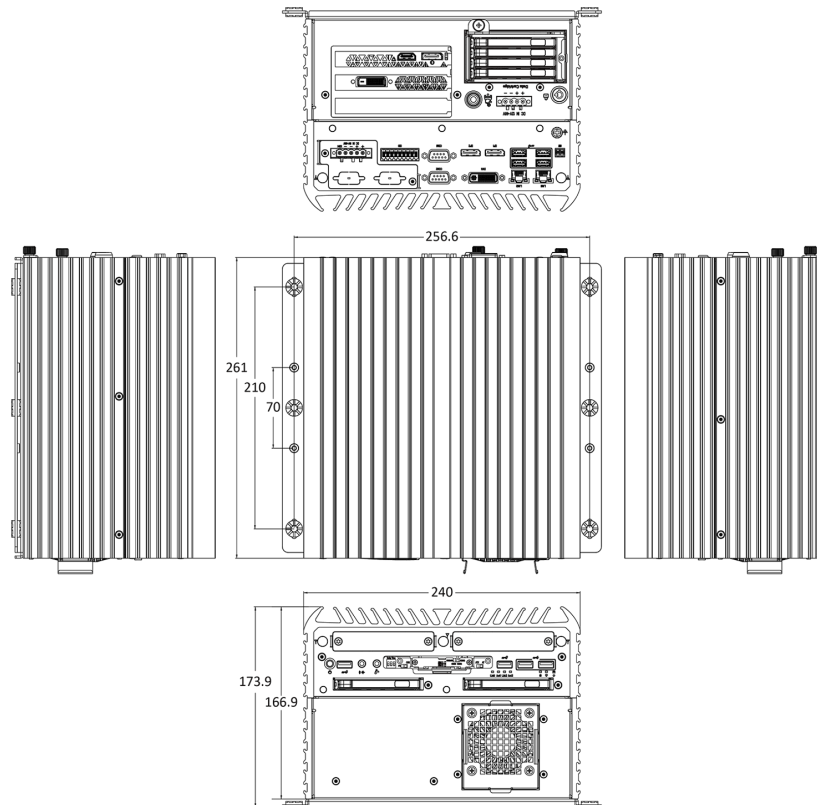


Available Modules



Dimension

Unit: mm





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Available Models

Model No.	Description
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Optional Accessories

Model No.	Description
1-E09A12002	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch
1-E09A22102	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch
1-E09A22801	Adapter AC/DC 24V/11.67A 280W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Packing List

1x RCO-6000-CML-4N2060S
 1x Wall Mount Kit
 1x Accessory Kit
 1x DVI to VGA Adapter



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