



GPU COMPUTING SYSTEM

RCO-6000-CML-2C-2PWR

GPU Computing System w/ LGA 1200 for Intel 10th Gen Processor and W480E PCH, 1x PCIe x16, 1x PCI, 2x Power input



Features

- LGA 1200 socket for 10th Gen. Intel® CML S Processor (65W/35W TDP)
- Intel® W480E chipset
- 2x DDR4 2666/2933MHz SODIMM. Max. up to 64GB
- Triple Independent Display: 2x DisplayPort, 1x DVI-I
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size Mini PCIe for communication or expansion modules, 2x SIM socket
- 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)
- 8x DI + 8x DO with isolation
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -25°C to 70°C (35W/65W CPU)
- TPM 2.0 Supported
- 1x PCIe x16 and 1x PCI Expansion
- 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 | 2x DisplayPort, support resolution 4096 x 2304, DP++ |
| DVI | 1x DVI-I, support resolution 1920 x 1200 |
| Multiple Display | Triple Display |
| VGA | Yes (by optional split cable) |

Storage

| | |
|------------|--|
| 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 |

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 |
| PCI | 1x PCI |

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)

Card Dimension 235 (L) x 112 (H) mm

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 GPU/Card Expansion |
| Power Connector | 5-pin Terminal Block 4-pin Terminal Block for GPU Expansion |
| Power Protection | OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection |

Environment

| | |
|-----------------------|--|
| Operating Temperature | -25°C to 70°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

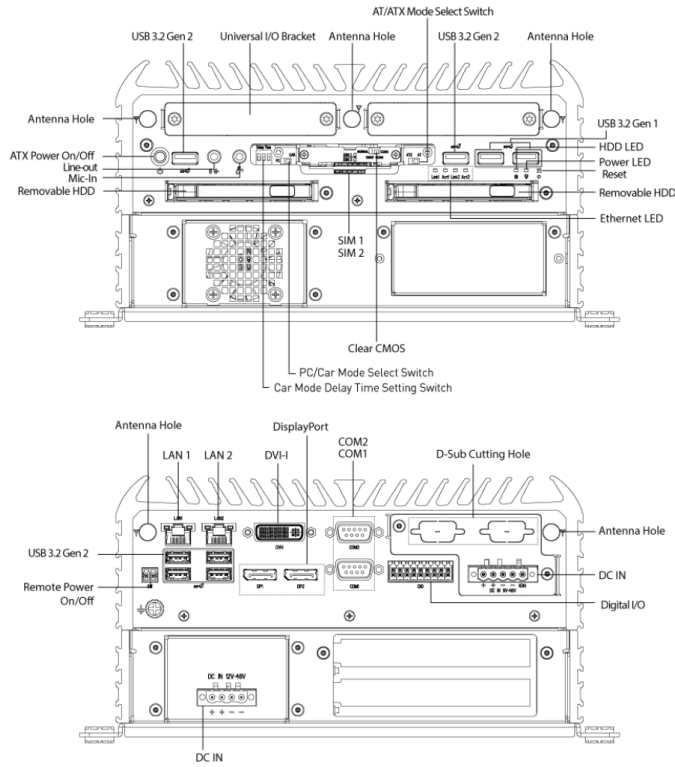
| | |
|------------------|---|
| Dimensions | 240 (W) x 261 (D) x 126.8 (H) mm |
| Weights | 5.6 kg |
| Construction | Extruded Aluminum with Heavy Duty Metal |
| Mounting Options | Wall Mounting |

• All specifications and photos are subject to change without notice.








RCO-6000-CML-2C-2PWR

External I/O Mechanical Layout

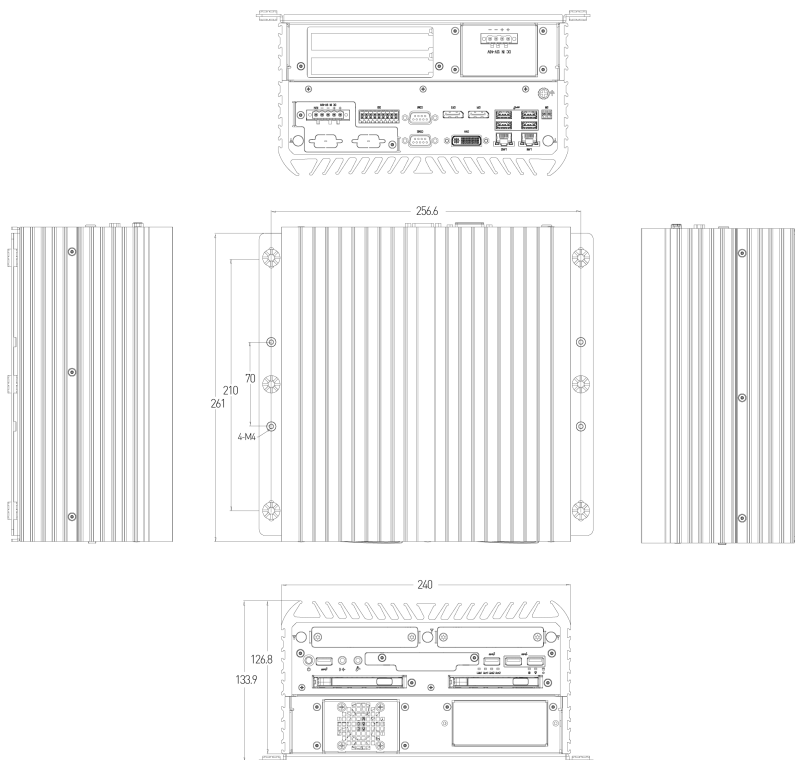


Available Modules

-  **5G Module:** 2x 5G SIM Slots
-  **D10G Module:** 2x 10Gb Ports
-  **LAN/POE Module:** 4x RJ45 LAN/POE Ports
-  **M12 Module:** 4x M12 LAN/POE Ports
-  **USB Module:** 4x USB 3.0 Ports

Dimension

Unit: mm





RCO-6000-CML-2C-2PWR

Available Models

| Model No. | Description |
|----------------------|--|
| RCO-6000-CML-2C-2PWR | GPU Computing System w/ LGA 1200 for Intel 10th Gen Processor and W480E PCH, 1x PCIe x16, 1x PCI, 2x Power input |

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 Series Embedded System
 1x Wall Mount Kit
 1x Accessory Kit
 1x DVI to VGA Adapter



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Assured Systems

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