



AI EDGE INFERENCE COMPUTER

RCO-6000-CML-2

Industrial Computer w/ LGA 1200 for Intel 10th Gen CPU & W480E PCH, 2x PCIe/PCI Expansion

Features

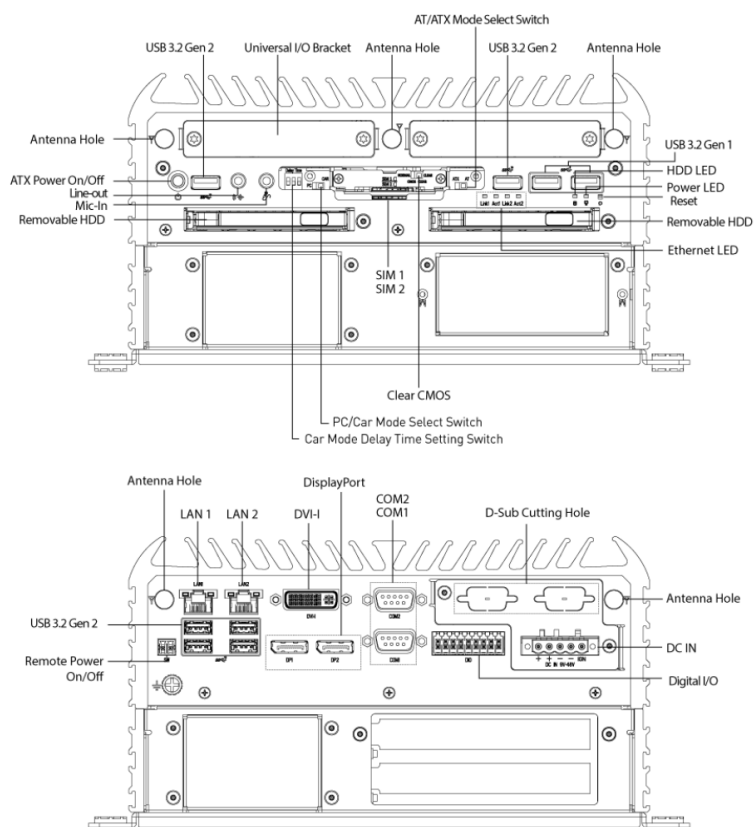
- LGA 1200 socket for 10th Gen. Intel® CML S Processor (35W TDP)
- Intel® W480E chipset
- 2x DDR4 2666/2933MHz SODIMM. Max. up to 64GB
- Triple Independent Display: 2x DisplayPort, 1x DVI-I
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size Mini PCIe for communication or expansion modules, 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 CPU)
- TPM 2.0 Supported
- 1x PCIe x16 and 1x PCI Expansion
- Edge AI Ready with Hailo-8™ (26 TOPS / 2.5W)
- UL Listed



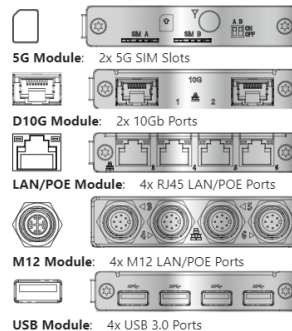
Specifications

System		Others	
Processor		5x WiFi Antenna Holes	
Support 10th Gen Intel® CML S Processor (LGA 1200, 35W TDP)		1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off	
- Intel® Xeon® W-1290TE, 10 Cores, 20MB Cache, up to 4.5 GHz		1x PC/Car Mode Switch, 1x Delay Time Switch	
- Intel® Core™ i9-10900TE, 10 Cores, 20MB Cache, up to 4.5 GHz		1x Removable CMOS Battery	
- Intel® Core™ i7-10700TE, 8 Cores, 16MB cache, up to 4.4 GHz		4x 4-Pin Power Connector, 1x 4-PIN FAN Connector	
- Intel® Core™ i5-10500TE, 6 Core, 12MB Cache, 3.7 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		
AI Accelerator	Supports 4x Hailo-8™ modules		
TPM	TPM 2.0		
Display		Operating System	
Display Port	2x DisplayPort, support resolution 4096 x 2304, DP++	Windows	Windows 10/11
DVI	1x DVI-I, support resolution 1920 x 1200	Linux	Linux kernel
Multiple Display	Triple Display		
VGA	Yes (by optional split cable)		
Storage		Power	
SIM Socket	2x External SIM socket (Mini PCIE attached)	Power Adapter	Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A, 220W
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	Power Mode	AT, ATX
		Power Ignition Sensing	Power Ignition Management
		Power Supply Voltage	9~48VDC
		Power Connector	5-pin Terminal Block
		Power Protection	OVP (Over Voltage Protection), OCP (Over Current Protection), Reverse Protection
Expansion		Environment	
M.2	1x M.2 (E Key, PCIe x1, USB 2.0, 2230)	Operating Temperature	-25°C to 70°C (35W CPU)
Mini PCIe	2x Full-size Mini PCIe	Storage Temperature	-30°C to 85°C
PCIe	1x PCIe x16 (Model 2C) 2x PCIe x16 (8-lane) (Model 2E)	Relative Humidity	10% to 95% (non-condensing)
PCI	1x PCI (Model 2C) 2x PCI (Model 2I)	Certification	UL 62368 Ed. 3, CE, FCC Class A
		Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
		Shock	With SSD: 50G, half sine, 11ms
Expansion Modules		Physical	
Occupied One Universal I/O Slot:		Dimensions	240 (W) x 261 (D) x 126.8 (H) mm
• 4-port GbE module with Intel® I350 Chipset, RJ-45 or M12 connector (PoE optional)		Weights	5.6 kg
• 2-Port RJ45 10GbE with Intel X710 Chipset		Construction	Extruded Aluminum with Heavy Duty Metal
• 4-Port USB with Renesas uPD720201K8 host controller (share PCIe Gen2 x1 bandwidth)		Mounting Options	Wall Mounting
• 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)		

External I/O Mechanical Layout

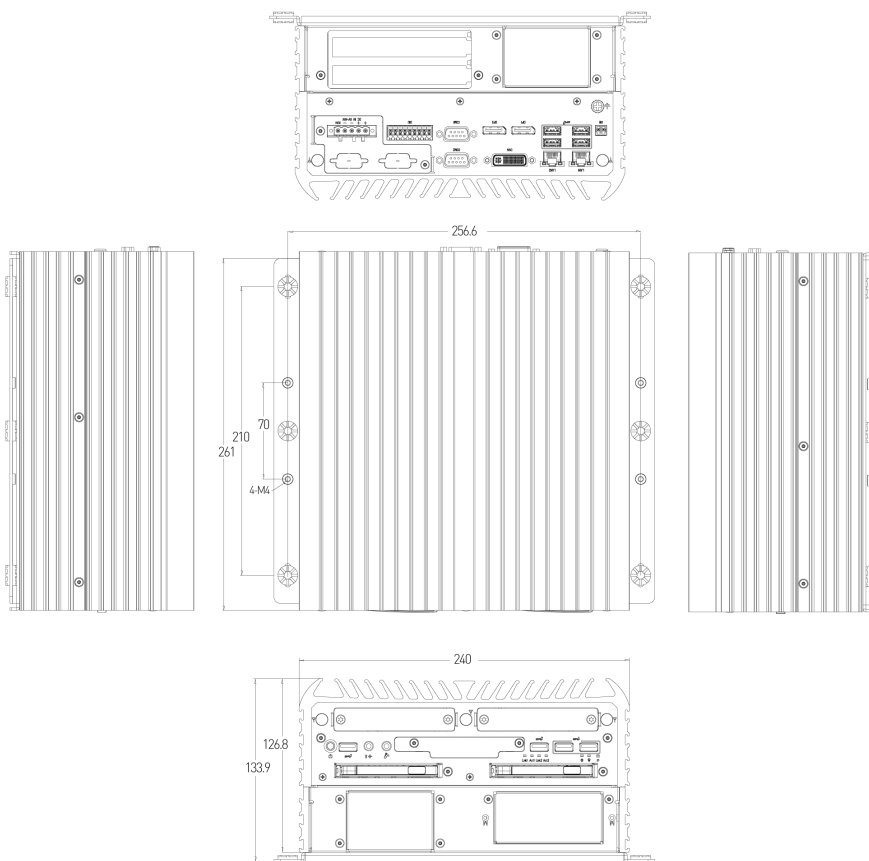


Available Modules



Dimension

Unit: mm



Compatible GPU AVL

Model	GPU Memory	Memory Bandwidth	CUDA Cores	Tensor Cores	RT Cores	AI TOPS	Dimensions	Power & Thermal
RTX 4000 SFF Ada Generation	20GB GDDR6 ECC	320 GB/s	6144	192	48	307	2.7" x 6.6" LP DS	70 W
NVIDIA RTX 2000 Ada Generation	16 GB GDDR6 with ECC	224 GB/s	2816	88	22	192	2.7" x 6.6" LP DS	70 W
NVIDIA RTX A1000	8GB GDDR6	192 GB/s	2304	72	18	108	2.7" H x 6.4" LP SS	50 W

Compliances and Standards

Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Shock	With SSD: 50G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Operating Temperature	-25°C to 70°C (35W CPU) IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMC	• FCC Class A • CE • ICES-003 • UKCA • Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
Safety	• UL Safety: UL62368-1, 3rd Ed., (cULus) • Test procedure: CB Scheme • Standard: IEC 62368-1:2018

Available Models

Model No.	Description
RCO-6000-CML-2E-P	Industrial Computer w/ LGA 1200 for Intel® 10th Gen CPU & W480E PCH, 2x LAN, 2x PCIe x16 (8-lane), w/ Power Adapter
RCO-6000-CML-2I-P	Industrial Computer w/ LGA 1200 for Intel® 10th Gen CPU & W480E PCH, 2x LAN, 2x PCI, w/ Power Adapter
RCO-6000-CML-2C-P	Industrial Computer w/ LGA 1200 for Intel® 10th Gen CPU & W480E PCH, 2x LAN, 1x PCIe x16, 1x PCI, w/ Power Adapter

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
999930	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 DVI to VGA Adapter

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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