



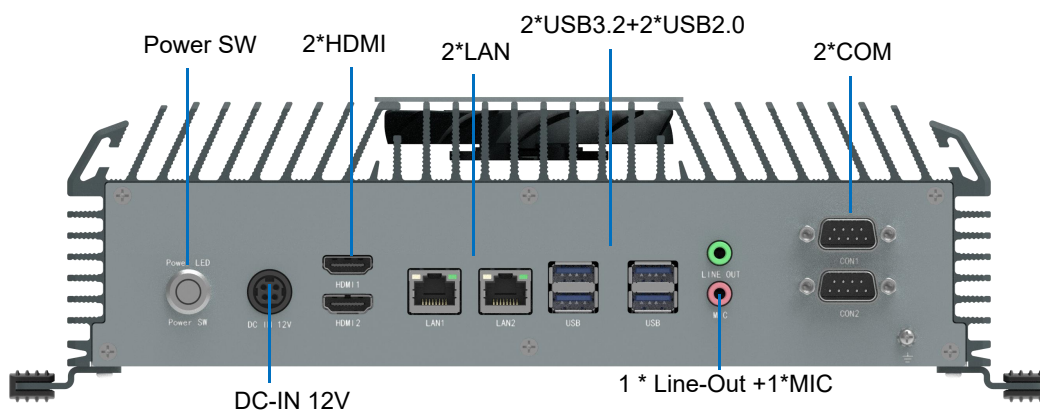
Key Features

- Intel® Core Ultra SoC CPU
- 2*DDR5-5600 SO-DIMM Max. 96GB
- 2*M.2 Key-M PCIeX4 NVME high speed storage
- 2*HDMI2.1, 2 UHD independent displays
- 2 *LAN , 2*USB3.2, 2*USB2.0
- 1*M.2 B-key and 1*M.2 E-key support 4G LTE/5G NR and WIFI6
- DC-IN 12V power input , with OVP,OCP and SCP
- Aluminum-magnesium alloy chassis, Fan cooling design

Product Overview

The BRAV-7820 is equipped with an Intel® Core™ Ultra processor, supporting up to 96GB of RAM. It features multi-network, multi-display, multi-storage, and multi-expansion capabilities, powered by DC 12V/10A input. Designed for MEC (Multi-access Edge Computing) edge computing, it is ideal for industries such as smart transportation, machine vision, and intelligent logistics.

IO Layout

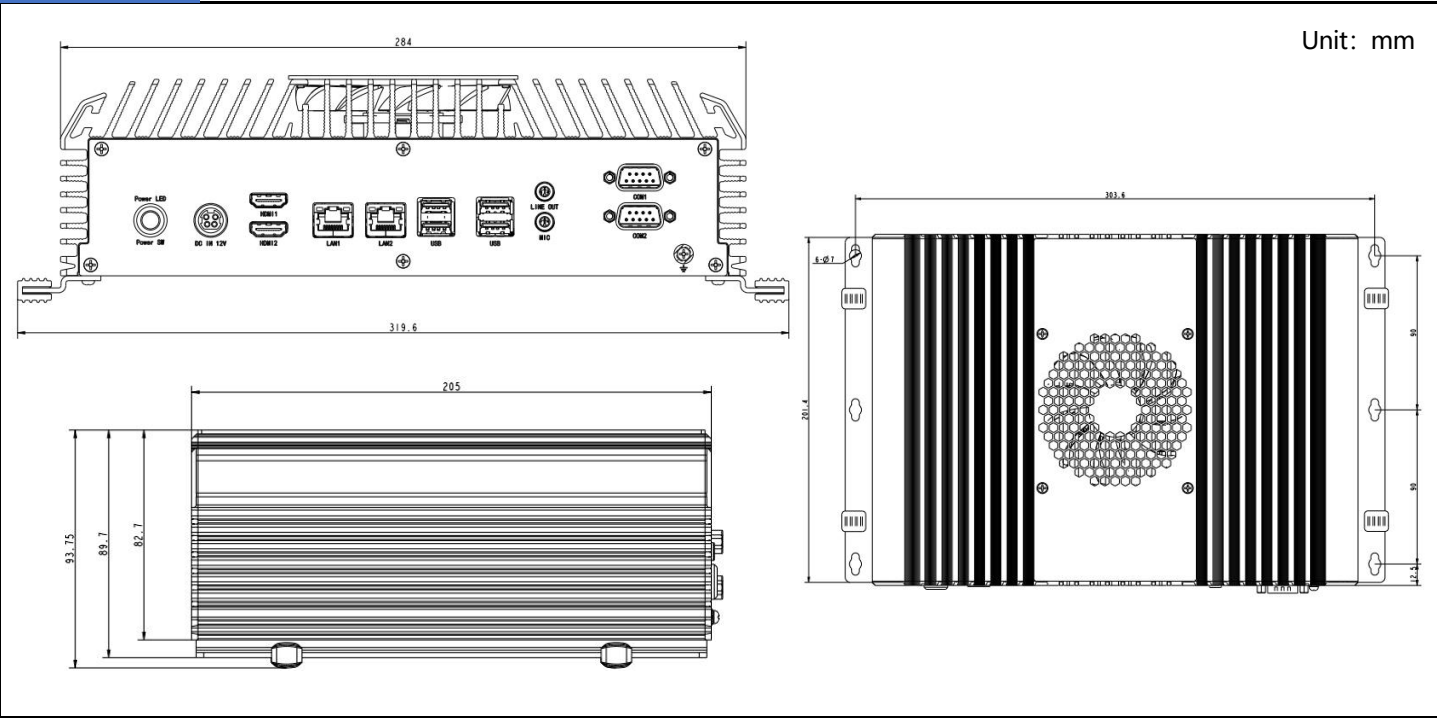


Product SPEC

CPU	Intel® Core™ Ultra CPU , Meteor Lake-H: Ultra 125H/155H; Arrow Lake-H: Ultra 225H/255H
Memory	Dual channel DDR5-5600 MHz, 2 * SO-DIMM Slot, up to 96GB
Expansion	1 * M.2 3042/3052Key-B (USB3.0 +PCIE+USB2.0, Support 4G/5G) , with 1 * Nano SIM Card Slot 1 * M.2 2230 Key-E (PCIE+USB2.0 + +CNVi, Support Wifi6 +BlueTooth 5.4) 2* M.2 2280 Key-M (PCIeX4, Gen4, Support NVMe or 10G-LAN)
Graphics	Intel® Arc™ 130T/140T GPU, Supports DirectX12.2, OpenGL 4.6 and OpenCL 3.0, H.264,H.265 (HEVC) and AV1 Hardware Encode/Decode, VP9 Bitstream & Decoding, max resolution up to 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) and 7680 x 4320 @ 60Hz (HDMI2.1 FRL)
NPU	Intel® AI Boost, Peak 13TOPS(INT8), Supports OpenVINO™, WindowsML , DirectML , ONNX RT
Audio	Realtek Audio HDA codec , Support Audio Line-Out and MIC
LAN	1* Intel® I226LM 2.5G LAN Chip (RJ45,10/100/1000/2500 Mbps), Supports iAMT 1* Intel® I210AT GbE LAN Chip (RJ45,10/100/1000Mbps)
Storage	2 * M.2 2280 Key-M (PCIeX4 Gen4, Support PCIE X4 NVMe)
I/O Interface	2*G-LAN(RJ45 w/LED); 2*HDMI (Type A) ; 2*USB3.2(Type A) +2*USB2.0 (Type A); 2*RS232 (DB9 Male) ; 1*MIC+1Line-out (3.5mm phone jack)

Control SW	1* Power button w/LED
Power Supply	DC 12V input
OS Support	Windows 10/11 64-bit, Linux
Structure	Aluminum extrusion thermal enclosure, SGCC frame
Color	Granite Gray
Mounting	Desktop Mounting with anti-vibration rubber pads
Dimension	(L*W*H) : Main box: 284*205*90mm; Including mounting bracket: 320*205*94mm
Operating temperature	-20°C ~ 65°C, airflow
Storage Temperature	-20°C~75°C

Dimension



Ordering Info.

Model No.	Module	Introduction
BRAV-7820-S001	Intel Ultra 5 125H	2*DDR5 SODIM, 2*LAN, 4*USB Type-A, 2*HDMI, 2*COM, 1*MIC, 1*Line-out, 2*M.2 M-key, 1*M.2 B-key, 1*M.2 E-key. DC-IN 12V.
BRAV-7820-T001	Intel Ultra 5 225H	
BRAV-7820-S002	Intel Ultra 7 155H	
BRAV-7820-T002	Intel Ultra 7 255H	
PA-120DC12		AC/DC power adapter, DC12V/10A, 120W