

Powering Next-Gen MEC Edge Intelligence



JHCTECH BRAV-7820

JHCTECH × intel ai

Compact MEC Edge System for Transport, Vision, and Logistics

The BRAV-7820 is a high-performance MEC edge computing system powered by Intel® Core™ Ultra processors (featuring both Series 1 and Series 2), supporting up to 96GB DDR5 RAM. It addresses the growing demand for low-latency, real-time processing in applications such as smart transportation, machine vision, and intelligent logistics. Designed for harsh industrial environments, the BRAV-7820 features dual HDMI 2.1 display outputs, 2.5G + 1G Intel LAN, and rich I/O for connectivity. It supports modular expansion through M.2 B-key, E-key, and dual M-key slots—for 5G/Wi-Fi 6, NVMe SSDs, or 10G LAN. The system integrates Intel® Arc™ GPU and Intel® AI Boost NPU (13 TOPS), accelerating AI workloads with OpenVINO™ and ONNX RT. With wide-temp tolerance (-20°C to 65°C), active fan cooling, and a rugged aluminum-magnesium chassis, the BRAV-7820 delivers high compute density, excellent scalability, and reliable performance for edge AI and intelligent transportation.

***Supports multi-
sensor fusion
with up to
8 cameras +
4 radars***

Intel Product and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Ultra Processors



Intel® Iris®
Xe Graphics



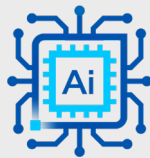
OpenVINO™

Intel® Neural
Processing Unit
(Intel® NPU)

Intel® AI Boost

Key Features

Empowered by Intel.



Three AI Engines:
CPU+IGPU+NPU



Flexible
Expansion



Wide-Temp
Operation



Industrial-Grade
Reliability Design

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Product Specifications

CPU	Intel® Core™ Ultra CPU, Intel® Core™ Ultra Processors (Series 1) 125H/155H; Intel® Core™ Ultra Processors (Series 2) 225H/255H
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)
Memory	Dual channel DDR5-5600 MHz, 2 * SO-DIMM Slot, up to 96GB
Storage	2 * M.2 2280 Key-M (PCIeX4 Gen4, Support PCIE X4 NVMe)
Wireless Network	1 * M.2 2230 Key-E (PCIe+USB2.0++CNVi, Support Wifi6 +BlueTooth 5.4)
LAN	1* Intel® Ethernet Controller I226-LM 2.5G LAN Chip (RJ45,10/100/1000/2500 Mbps), Supports iAMT 1* Intel® Ethernet Controller I210-AT GbE LAN Chip (RJ45,10/100/1000Mbps)
Operating / Storage Temp.	-20°C ~ 65°C / -20°C~75°C
Dimension (W x D x H)	284mm x 205mm x 90mm (main box); 320mm x 205mm x 94mm (including mounting bracket)
Weight	4 kg
OS	Windows 10/11 64-bit, Linux

Learn More

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