

IPC-JT Series

Nvidia-Based AI Box PCs



Product Brief

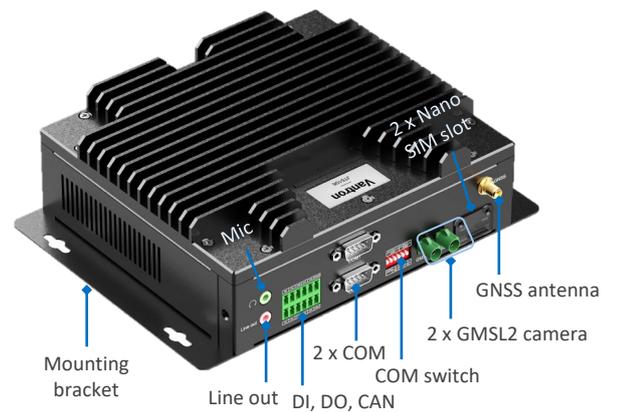
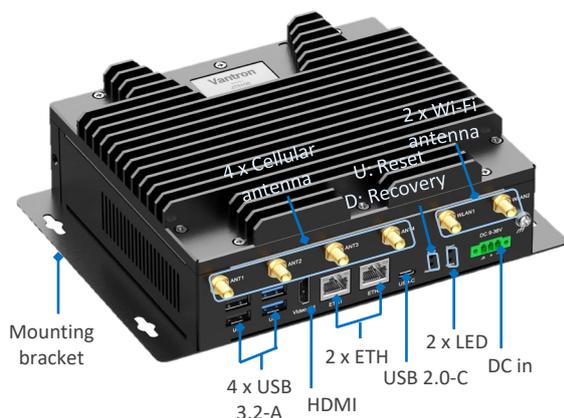
The IPC-JT Series represents a family of high-performance, rugged AI box PCs built on NVIDIA Jetson Orin platforms, engineered to deliver exceptional computing power for edge AI and industrial applications. Designed for reliability in harsh environments, these systems combine robust hardware with advanced AI capabilities to power intelligent solutions across industries.

Powered by the NVIDIA Jetson Orin NX (Super Mode), the IPC-JT5316 delivers a formidable 157 TOPS AI performance, making it ideal for compute-intensive edge AI workloads. Equipped with an 8-core Arm Cortex A78AE processor, 16GB LPDDR5 memory, and an M.2 NVMe (PCIe Gen4) storage interface, it ensures seamless multitasking and fast data access.

Built on the NVIDIA Jetson Orin Nano (Super Mode), the IPC-JT5108, provides a balanced 67 TOPS AI performance, offering a cost-effective yet powerful solution for edge AI deployments. It features a 6-core Arm Cortex A78AE processor, 8GB LPDDR5 memory, and the same high-speed M.2 NVMe (PCIe Gen4) storage as its sibling, ensuring efficient data handling for AI applications.

Both models integrate a GPU featuring 1024 CUDA cores and 32 Tensor cores for accelerated deep learning inference and parallel processing. In addition, their rich I/O and robust networking capabilities make them well-suited for applications including edge AI computing, industrial automation, intelligent traffic management, mobile robots, AGVs, machine vision inspection, and interactive kiosks.

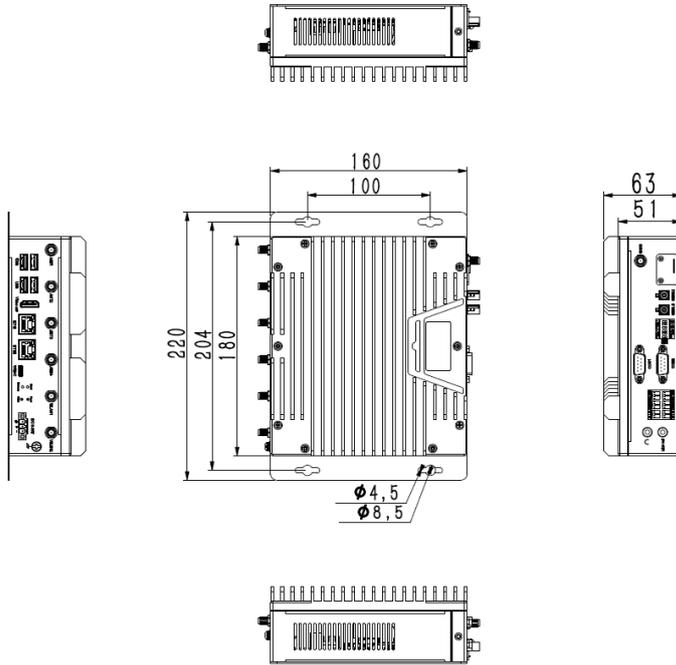
Exterior and Features



-  NVIDIA Jetson Orin hexa/octa-core processors in Super Mode
-  1024 CUDA + 32 Tensor cores delivering up to 157/67 TOPS
-  Flexible connectivity via GbE, Wi-Fi 6, 4G/5G

-  Wide temperature & voltage support
-  Rich I/O: 8K HDMI, GMSL2, USB, COM, CAN FD, DI, DO
-  Integrated TPM 2.0

Product Outline



Ordering Information

Nomenclature

IPC-[P]-[W-C]

P (CPU): **JT5316**-Jetson Orin NX 16GB (Super Mode); **JT5108**-Jetson Orin Nano 8GB (Super Mode)

W (Wi-Fi & BT): **Null**-Not provided; **AX**-Wi-Fi 6 + BT 5.0

C (Cellular): **Null**-Not provided; **4GL**-4G global; **5GL**-5G global; **4CN**-4G for China; **5CN**-5G for China

Example Ordering No.	Memory	Storage	Wi-Fi & BT	Cellular
IPC-JT5316	16GB LPDDR5	128GB NVMe SSD	-	-
IPC-JT5108	8GB LPDDR5	128GB NVMe SSD	-	-
IPC-JT5316-AX5GL	16GB LPDDR5	128GB NVMe SSD	Wi-Fi 6 + BT 5.0	5G global
IPC-JT5108-4CN	8GB LPDDR5	128GB NVMe SSD	-	4G for CN

Packing List	
IPC-JTxxxx AI box PC	1
GNSS antenna	1

Optional Accessories	
12V=5A power adapter & power cord	1 kit
DC power connector	1
Wi-Fi antenna	2
4G/5G antenna	2/4