

# EPC-R7300

## Industrial-Grade NVIDIA Jetson Orin™ Nano and NX Barebone Box PC

**NEW**



### Features

- NVIDIA Jetson Orin™ Nano and NX Module compatible Barebone PC
- Industrial and Expandable Design
- HDMI up to 3840 x 2160 at 60Hz resolution
- Dual GbE LAN, 2 USB3.2 Gen 2
- 1 Nano SIM Slot
- 1 M.2 3042/52 Key B Slot, 1 M.2 2230 Key E Slot, 1 M.2 2280 Key M Slot
- 4 Kinds of Rear I/O for Each Vertical Focus: IEM, Self Service, Automation and Networking

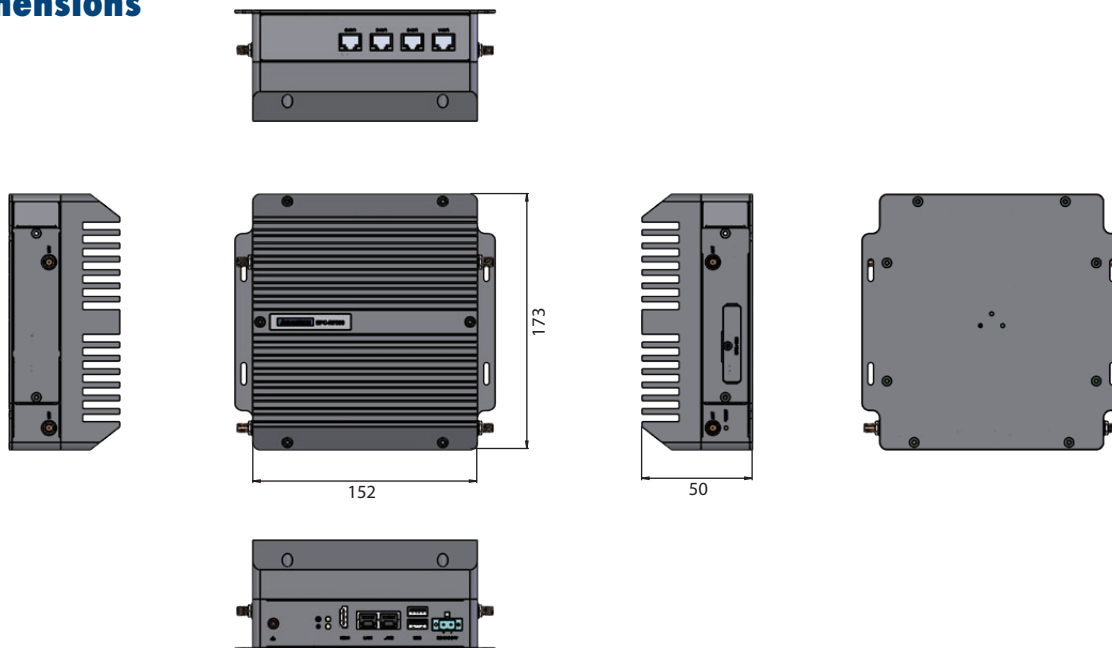


### Specifications

| Model              |                       | EPC-R7300J-ALA1NN   | EPC-R7300J-ALA180 |
|--------------------|-----------------------|---|-------------------|
| Compatible Modules | NVIDIA Jetson Series  | Orin Nano and NX  |                   |
| Graphics           | HDMI                  | 1 x HDMI 2.0, Maximum Resolution 3840 x 2160 at 60Hz  |                   |
|                    | Graphics Engine       | NVIDIA Ampere GPU on Jetson Modules   |                   |
|                    | H/W Video Codec       | Up to 4K60 encode/decode  |                   |
| Ethernet           | Chipset               | NVIDIA Jetson integrated RGMII and Intel 1GbE Controller  |                   |
|                    | Speed                 | 2 10/100/1000 Mbps  |                   |
| Indicator          | LED                   | 1 x Power LED; 1 x Programmable LED   |                   |
| Front I/O          | USB                   | 2 x USB3.2 Gen 2 Type A   |                   |
|                    | GbE                   | 2 x RJ45 for GbE  |                   |
| Rear I/O           |                       | N/A   | 3 x LAN & 1 WAN   |
| Expansion          | M.2                   | 1 M.2 3042/52 Key B Slot (PCIe/USB3.2 Gen2/12C)<br>1 M.2 2230 Key E Slot (USB2.0/PCIe/UART/12C)<br>1 M.2 2280 Key M Slot (x4 PCIe for NVMe) |                   |
|                    | SIM                   | 1 Nano SIM Slot   |                   |
|                    | Antenna Holes         | 4   |                   |
| Power              | Power Supply Voltage  | 9-36V   |                   |
|                    | Power Type            | 2-pole lockable DC-in   |                   |
|                    | Power Consumption     | 40 Watts (Depends on Module Selection)  |                   |
| Environment        | Operating Temperature | -20 ~ 60 °C   |                   |
|                    | Operating Humidity    | 5% ~ 95% relative humidity, non-condensing  |                   |
| Mechanical         | Dimensions            | 152 x 173 x 50 mm (W x L x H)   |                   |
|                    | Mounting              | Wall mount, DIN Rail mount  |                   |
|                    | Weight                | 1.25 Kg   |                   |
| Operating System   | Linux                 | Ubuntu  |                   |
| Certifications     |                       | CE/FCC Class B  |                   |

## Dimensions

Unit: mm



## Ordering Information

| Part Number        | HDMI | LAN                          | USB | DI/DO | Serial Port | SSD   | Nano SIM | UIO & Orin | Operating Temperature |
|--------------------|------|------------------------------|-----|-------|-------------|-------|----------|------------|-----------------------|
| EPC-R7300J-ALA1NN* | 1    | 2                            | 2   | -     | -           | -     | 1        | -          | -20 ~ 60 °C           |
| EPC-R7300J-ALA180* | 1    | 6 (3 LAN & 1WAN by UIO-4038) | 2   | -     | -           | -     | 1        | UIO-4038   | -20 ~ 60 °C           |
| EPC-R7300IH-ALA1NN | 1    | 2                            | 2   | -     | -           | 128GB | 1        | NX-16GB    | -20 ~ 60 °C           |
| EPC-R7300IV-ALA1NN | 1    | 2                            | 2   | -     | -           | 128GB | 1        | NX-8GB     | -20 ~ 60 °C           |
| EPC-R7300IF-ALA1NN | 1    | 2                            | 2   | -     | -           | 128GB | 1        | Nano-8GB   | -20 ~ 60 °C           |
| EPC-R7300IT-ALA1NN | 1    | 2                            | 2   | -     | -           | 128GB | 1        | Nano-4GB   | -20 ~ 60 °C           |

\*Not available in Europe.

## Packing List

| Part Number    | Description                                       |
|----------------|---|
| 1970005683T001 | Heat Spreader for Jetson Orin Nano and NX modules |
| 1652005203     | PLUG-IN BLOCK 2P 90D(F) MC101-50002GUY            |

## Optional Accessories

| Part Number        | Description  |
|--------------------|--|
| 968DD00270         | NVIDIA Jetson Orin NX 8G Module                              |
| 968DD00271         | NVIDIA Jetson Orin NX 16G Module                             |
| 968DD00349         | NVIDIA Jetson Orin Nano 8GB Module                           |
| 968DD00350         | NVIDIA Jetson Orin Nano 4GB Module                           |
| 96PSA-A60W24T2-3   | ADP A/D 100-240V 60W 24V C14 CORD END 2PIN 62368             |
| 1702002600         | Power Cord UL 3P 10A 125V 183cm                              |
| 1702002605         | Power Cord 3P EU 10A 250V 183cm                              |
| 1702031801         | Power Cord 3P UK 10A 250V 183cm                              |
| 1700000237-01      | Power Cord 3P PSE 183cm                                      |
| 1700009652         | Power Cord CCC 3P 10A 250V 187cm                             |
| 1960015198T011     | DIN Rail kit   |
| SQF-C8MV2-128G-EDE | SQF PCIe/NVMe M.2 2280 OPAL 720 128G 3D TLC BiCS3 (-40~85°C) |
| AIW-356DQ-E01      | 5G Sub6+GNSS M.2 3052 Key B, USB only sku                    |
| 1750009372-01      | Ant.SMA/M 90/180 5G BLK 167mm RG178                          |
| 1751000360-01      | GPS & Beidou antenna 1575 & 1561±8Mhz                        |
| 1751000488-01      | Cable Ant. RP SMA(F) MHF4L/1.37 BLK L150mm                   |
| EWM-W159M201E      | M.2 2230 WiFi5+BT5.0 module                                  |
| 1750008717-01      | Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK                 |
| 1750008799-01      | Cable Ant.SMA/F-R-BH MFH4/113 BLK L170                       |
| 20706UJTN0013      | Ubuntu 22.04 image for Jetson Orin Nano and NX modules       |

## Front I/O

