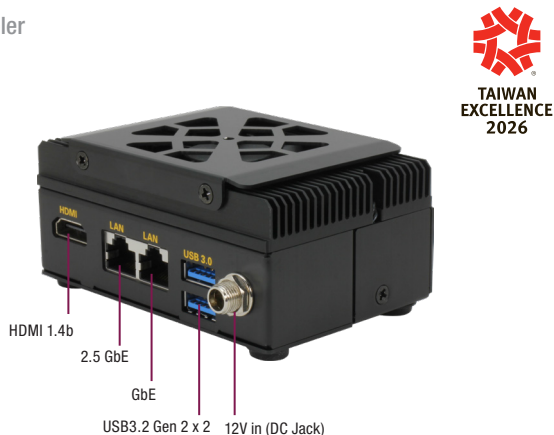


# de next-RAP8-EZBOX

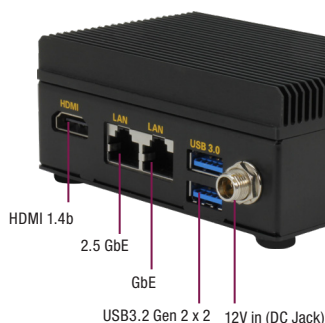
de next system with onboard 13th Gen. Intel® Core™ Series Processor



With Cooler



With Heatsink



## Specifications

| System            |                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor       | de next system                                                                                                                                   |
| CPU               | 13th Generation Intel® Core™ Processors<br>Intel® Core™ i7-1365UE (10C/12T, 1.70 GHz, up to 15W)                                                 |
| Chipset           | Integrated with Intel® SoC                                                                                                                       |
| Memory Type       | Onboard LPDDR5x , up to 16GB                                                                                                                     |
| BIOS              | UEFI                                                                                                                                             |
| Wake on LAN       | Yes                                                                                                                                              |
| Watchdog Timer    | 255 Levels                                                                                                                                       |
| Security          | fTPM                                                                                                                                             |
| RTC Battery       | Lithium Battery 3V/240mAh                                                                                                                        |
| Dimensions        | 3.75" x 2.73" x 1.78" (95.5mm x 69.5mm x 45.4mm), with Cooler Version<br>3.75" x 2.73" x 1.67" (95.5mm x 69.5mm x 42.5mm), with Heatsink Version |
| OS Support        | Windows 10 (64-bit)<br>Ubuntu 22.04.3 (Kernel 6.2)                                                                                               |
| Power             |                                                                                                                                                  |
| Power Requirement | +12V                                                                                                                                             |
| Power Supply Type | AT/ATX                                                                                                                                           |
| Connector         | DC Jack Connector                                                                                                                                |
| Power Consumption | TBD                                                                                                                                              |
| Display           |                                                                                                                                                  |
| Controller        | Intel® Iris® Xe Graphic Engine                                                                                                                   |
| LVDS/eDP          | —                                                                                                                                                |
| Display Interface | HDMI 1.4b x 1                                                                                                                                    |
| Multiple Display  | Single Display                                                                                                                                   |

## Features

- Onboard 13th Gen. Intel® Core™ Series Processor, TDP 15W
- Onboard LPDDR5x up to 16GB
- HDMI 1.4b x 1
- 2.5GbE RJ45 x 1, GbE RJ45 x 1
- USB 3.2 Gen 2 x 2
- M.2 2280 M-Key x 1 (PCIe [x2])
- DC 12Vin

| Audio                       |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Codec                       | —                                                                                                   |
| Audio Interface             | —                                                                                                   |
| Speaker                     | —                                                                                                   |
| External I/O                |                                                                                                     |
| Ethernet                    | Intel® Ethernet Connection I219-LM, GbE RJ-45 x 1<br>Intel® Ethernet Controller I226-LM, 2.5GbE x 1 |
| USB                         | Rear I/O: USB 3.2 Gen 2 (Type-A) x 2                                                                |
| Serial Port                 | —                                                                                                   |
| Video                       | HDMI 1.4b x 1                                                                                       |
| Internal I/O                |                                                                                                     |
| USB                         | —                                                                                                   |
| Serial Port                 | —                                                                                                   |
| Video                       | —                                                                                                   |
| SATA                        | —                                                                                                   |
| Audio                       | —                                                                                                   |
| DIO/GPIO                    | —                                                                                                   |
| SMBus/I2C                   | —                                                                                                   |
| Touch                       | —                                                                                                   |
| Fan                         | 4 Pin Smart Fan (with Cooler version only)                                                          |
| Sim                         | —                                                                                                   |
| Front Panel                 | PWR LED, Power Button                                                                               |
| Others                      | —                                                                                                   |
| Expansion                   |                                                                                                     |
| Mini PCIe/mSATA             | —                                                                                                   |
| M.2                         | M.2 2280 M-Key (PCIe [x2]) x 1                                                                      |
| Others                      | —                                                                                                   |
| Environment & Certification |                                                                                                     |
| Operating Temp.             | 32°F ~ 140°F (0°C ~ 50°C) in 0.5 airflow/sec                                                        |
| Storage Temp.               | -40°F ~ 176°F (-40°C ~ 80°C)                                                                        |
| Operating Humidity          | 0% ~ 90% relative humidity, non-condensing                                                          |
| MTBF (Hours)                | —                                                                                                   |
| EMC                         | CE/FCC Class A                                                                                      |

## Packing List

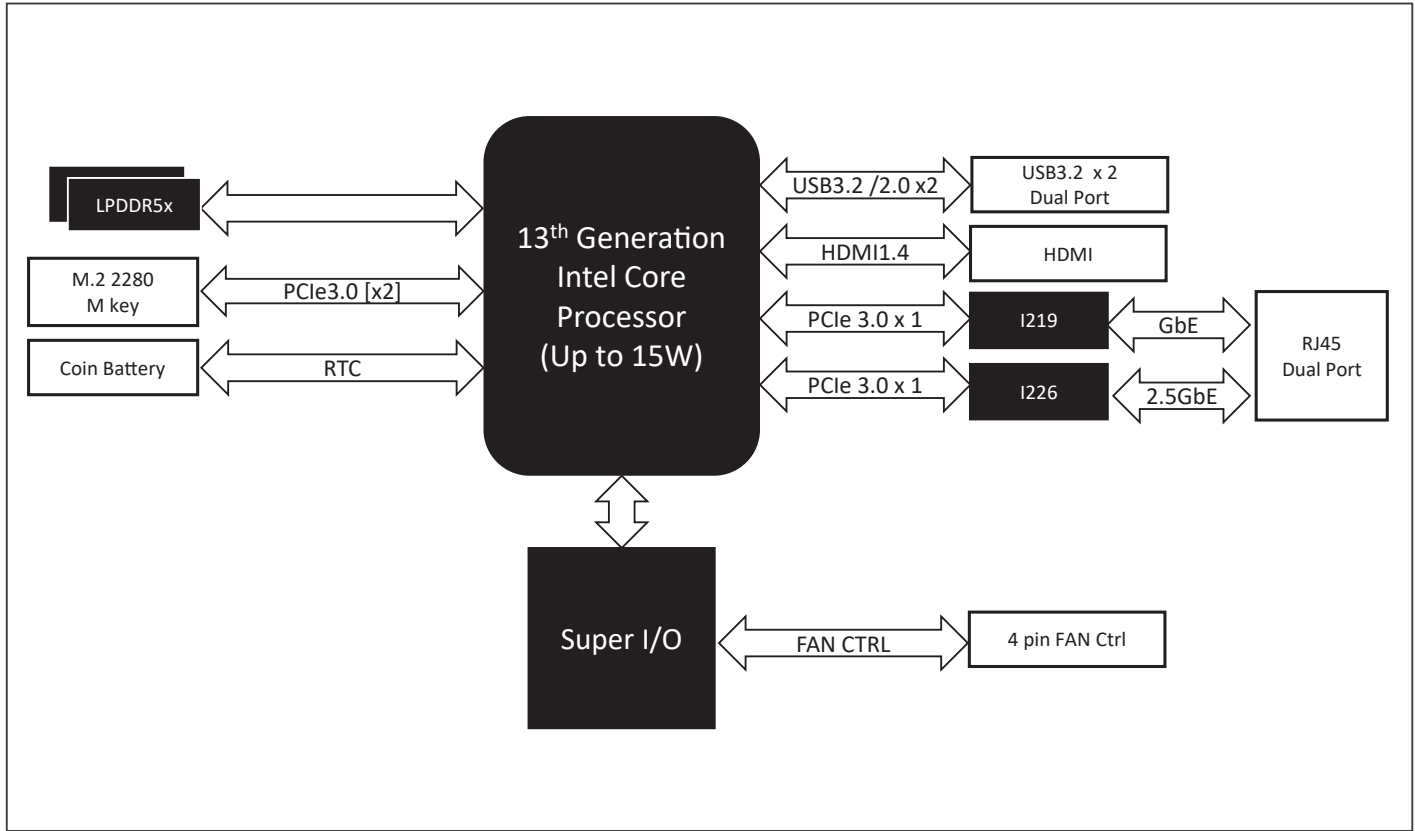
- de next-RAP-EZBOX x 1
- Wallmount x 1

## Optional Accessories

| Part Number | Description                                                        | QTY |
|-------------|--------------------------------------------------------------------|-----|
| 1255900903  | (TF)Power Adapter.100/240V.50/60Hz.12V/7.5A.90W.DELTA.DPS-90AB-3 A | 1   |

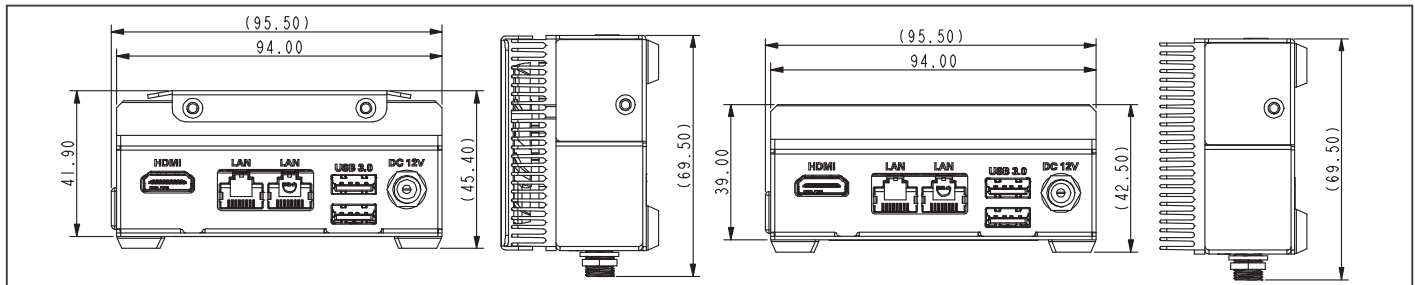


## Block Diagram



## Dimension

Unit: mm



## Ordering Information

| Part Number              | CPU                    | Memory               | Display       | Storage                       | LAN                   | USB               | COM Port | Expansion                     | Power | Operating Temperature | Others                  |
|--------------------------|------------------------|----------------------|---------------|-------------------------------|-----------------------|-------------------|----------|-------------------------------|-------|-----------------------|-------------------------|
| DENEXT-RAP8-EBX-A10-A001 | Intel® Core™ i7-1365UE | Onboard LPDDR5x 16GB | HDMI 1.4b x 1 | M.2 2280 M key (PCIe[x2] x 1) | 2.5 GbE x 1 , GbE x 1 | USB 3.2 Gen 2 x 2 | —        | M.2 2280 M key (PCIe[x2] x 1) | +12V  | 0°C ~ 50°C            | with CPU Cooler Version |
| DENEXT-RAP8-EBX-A10-P001 | Intel® Core™ i7-1365UE | Onboard LPDDR5x 16GB | HDMI 1.4b x 1 | M.2 2280 M key (PCIe[x2] x 1) | 2.5 GbE x 1 , GbE x 1 | USB 3.2 Gen 2 x 2 | —        | M.2 2280 M key (PCIe[x2] x 1) | +12V  | -5°C ~ 45°C           | with Heatsink Version   |