

## Giada NI-Z8300UL/VL

Intel® Cherrytrail-CR CPU Solution



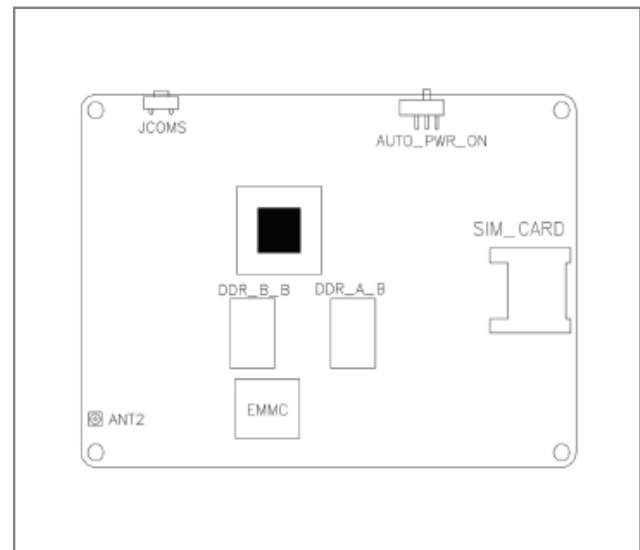
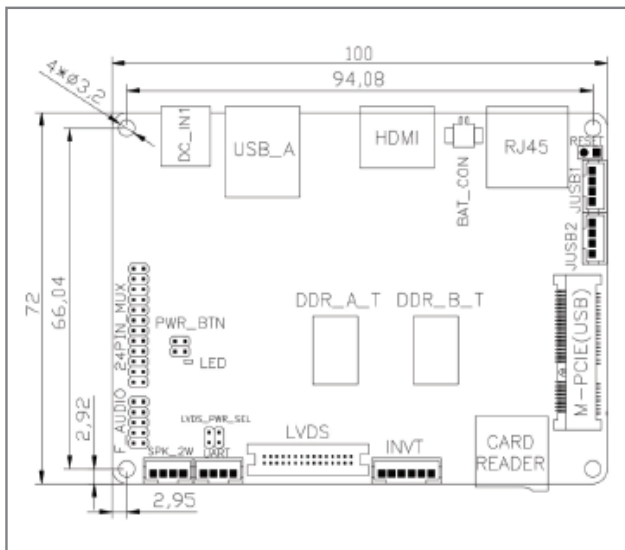
### Features

- Intel® Cherrytrail-CR
- Supports two independent displays
- Onboard memory (up to 2GB)
- Supports eMMC (up to 32GB)
- 1 x USB 3.0, 3 x USB2.0, 1 x TF card reader
- 1 x Gigabit LAN

### Specifications

|                    |                             | NI-Z8300UL                                                      | NI-Z8300VL     |
|--------------------|-----------------------------|-----------------------------------------------------------------|----------------|
| Processor System   | CPU                         | Intel® Atom™ x5-Z8300 Processor                                 |                |
|                    | Frequency                   | 1.44 GHz (up to 1.84 GHz)                                       |                |
|                    | Process Technology          | 14 nm                                                           |                |
|                    | Cores / Threats             | 4 / 4                                                           |                |
|                    | Scenario Design Power (SDP) | 2 W                                                             |                |
|                    | BIOS                        | AMI EFI 64 Mbit                                                 |                |
| Expansion Slots    | Mini-PCle (USB Signal)      | 1 x full-length Mini-PCle with 3G support, 1 x SIM slot         |                |
| Memory             | Type                        | DDR3L-1333MHz                                                   |                |
|                    | Capacity (Onboard)          | 2 GB                                                            |                |
|                    | Socket                      | N/A                                                             |                |
| Graphics           | Controller                  | Integrated Intel® HD Graphics                                   |                |
|                    | Graphic Engine              | DirectX11, OpenGL4.0 and OpenCL 1.2                             |                |
|                    | HDMI                        | Max. 2560×1600 @ 60Hz                                           |                |
|                    | LVDS                        | Default 1920 x1080, 5V                                          |                |
|                    | Dual Display                | Support HDMI + LVDS (clone mode, extended mode)                 |                |
| Ethernet           | Controller                  | Realtek 8111F, Gigabit Ethernet                                 |                |
|                    | Connector                   | RJ45                                                            |                |
|                    | Wi-Fi/BT (Onboard)          | Realtek 8723VAU, WIFI + BT                                      | Realtek, Wi-Fi |
| Audio              | Chipset                     | Realtek ALC5672, High Definition Audio (HD), Line-in, Audio-out |                |
| Watchdog Timer     | Watchdog Timer              | Patented JAHC unattended Technology                             |                |
| Storage            | eMMC                        | 32 GB                                                           | 8 GB           |
|                    | mSATA                       |                                                                 |                |
|                    | TF Card                     | 1 x TF Card Reader                                              |                |
| Rear I/O           | DC-IN                       | 1 x DC-IN (12V, 2.5mm)                                          |                |
|                    | HDMI                        | 1 x HDMI1.4b                                                    |                |
|                    | Ethernet                    | 1 x RJ45                                                        |                |
|                    | USB                         | 1 x USB3.0, 1 x USB2.0                                          |                |
|                    | Clear CMOS                  | 1 x 2Pin Jumper                                                 |                |
| Internal Connector | LVDS & Inverter             | 1 x 24bit Dual-channel LVDS header                              |                |
|                    | USB (2.0 Pitch)             | 1 x 4Pin USB header                                             |                |
|                    | Serial (2.0 Pitch)          | 1 x 4Pin COM header                                             |                |

|                    |                       | NI-Z8300UL                                     | NI-Z8300VL |
|--------------------|-----------------------|------------------------------------------------|------------|
| Internal Connector | Audio                 | 1 x Audio header                               |            |
|                    | Microsoft Windows     | Windows® 8.1 64-bit, Windows® 10 64-bit        |            |
| OS Support         | Android               | Android 5.1 (Launch schedule end of Jan, 2016) |            |
|                    | Power Type            | DC-IN                                          |            |
| Power              | Power Supply          | 12V 2A                                         |            |
|                    | Operating Temperature | 0~60 C at 0.7m/s air flow                      |            |
| Environment        | Storage Temperature   | -20~75 C                                       |            |
|                    | Relative Humidity     | 95%@ 40 C (non-condensing)                     |            |
| Form Factor        | Dimensions            | 100 x 72mm                                     |            |
| Cooler             |                       | Fanless                                        |            |



## Order Information

| Part Number | Intel CPU | RAM  | eMMC  | HDMI | GbE | USB 3.0 | USB 2.0 | Wi-Fi    | Mini-PCle   | Operating Temperature |
|-------------|-----------|------|-------|------|-----|---------|---------|----------|-------------|-----------------------|
| NI-Z8300UL  | Z8300     | 2 GB | 32 GB | 1    | 1   | 1       | 2       | Wi-Fi+BT | 1 Full size | 0 ~ 60° C             |
| NI-Z8300VL  | Z8300     | 1 GB | 8 GB  |      |     |         |         | Wi-Fi    | w/SIM       |                       |

## Packing List

| Part Number | Description       | Part Number | Description |
|-------------|-------------------|-------------|-------------|
| -           | 1 x NI-Z8300UL/VL | -           | 1 x DVD     |
| -           | 1 x User Manual   |             |             |

## Assured Systems

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