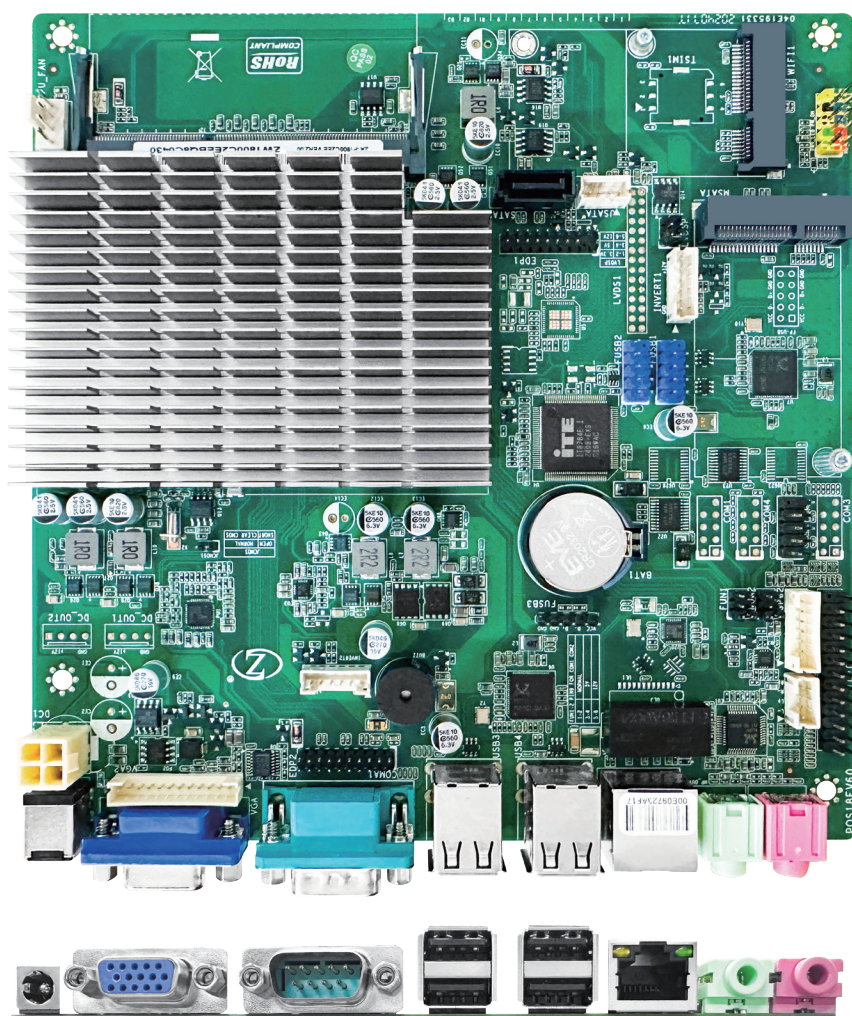


# ZA-P1800C2EE Mainboard

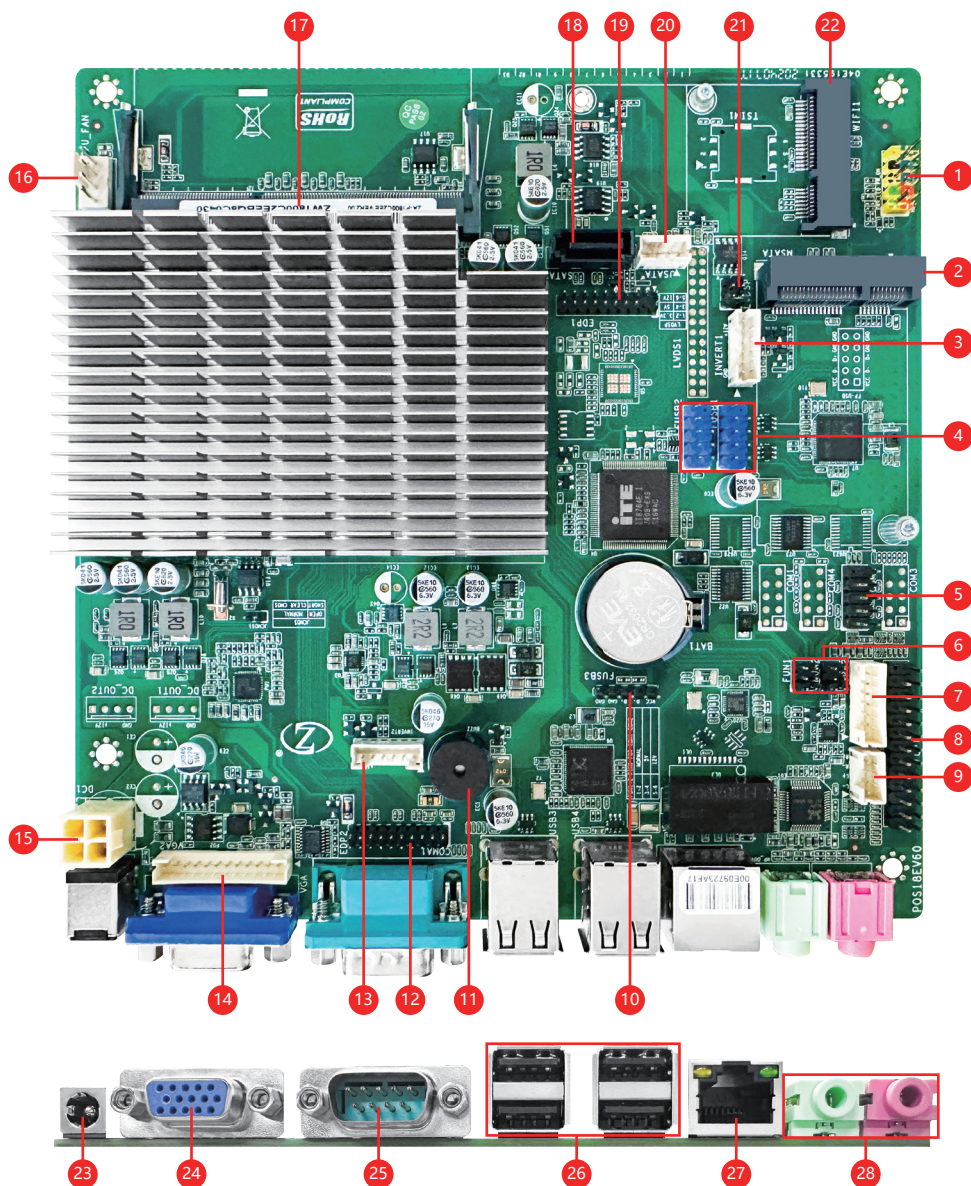
## Product characteristics:

- Intel® Celeron® J1800 processor
- Support 9\*USB (4\*USB2.0 interface/  
5\*USB2.0 Pin)
- Support 1\*LAN (Realtek RTL8106E  
100Mbps/10Mbps Ethernet Controller )



## ZA-P1800C2EE Motherboard Specifications

|                         |                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>             | 170mm*170mm                                                                                                                                                                                                                                                                                                 |
| <b>CPU</b>              | Intel® Celeron® J1800 processor                                                                                                                                                                                                                                                                             |
| <b>RAM</b>              | Support 1*DDR3L 1333/1066MHz Maximum support 8GB                                                                                                                                                                                                                                                            |
| <b>BIOS</b>             | AMIBIOS 32Mbit Flash                                                                                                                                                                                                                                                                                        |
| <b>Internal I/O</b>     | 1*Front panel Pin<br>2*Inverter1/2 Pin<br>3*FUSB1/2/3 Pin(Support 5*USB2.0 interface)<br>1*COM Pin<br>2*FUN1/2 Pin<br>1*JPS2 Pin<br>1*LPT Pin<br>1*SPEAK Pin<br>1*VGA Pin<br>2*EDP1/2 Pin<br>1*4Pin Power outlet<br>1*CPU_FAN Pin<br>1*SATA Data interface<br>1*JSATA Power supply interface<br>1*LVDSP Pin |
| <b>Rear I/O</b>         | 1*DC 12V interface<br>1*VGA interface<br>1*COM interface<br>4*USB2.0 interface<br>1*LAN interface<br>2*AUDIO interface (1*LINE OUT、1*MIC)                                                                                                                                                                   |
| <b>LAN</b>              | 1*Realtek RTL8106E 100Mbps/10Mbps Ethernet Controller                                                                                                                                                                                                                                                       |
| <b>Expansion slot</b>   | 1*Mini pcie Slot (WIFI) / 1*Mini pcie Slot (MSATA)                                                                                                                                                                                                                                                          |
| <b>Operating System</b> | Windows7/8/10;Linux                                                                                                                                                                                                                                                                                         |



|    |                              |
|----|------------------------------|
| 1  | Front panel Pin              |
| 2  | Mini pcie slot (MSATA)       |
| 3  | Inverter1 Pin                |
| 4  | FUSB1/2 Pin                  |
| 5  | COM Pin                      |
| 6  | FUN1/2 Pin                   |
| 7  | JPS2 Pin                     |
| 8  | LPT Pin                      |
| 9  | SPEAK Pin                    |
| 10 | FUSB3 Pin                    |
| 11 | Buzz                         |
| 12 | EDP2 Pin                     |
| 13 | Inverter2 Pin                |
| 14 | VGA Pin                      |
| 15 | 4Pin Power outlet            |
| 16 | CPU_FAN Pin                  |
| 17 | DDR3 slot                    |
| 18 | SATA Data interface          |
| 19 | EDP1 Pin                     |
| 20 | JSATA Power supply interface |
| 21 | LVDSP Pin                    |
| 22 | Mini pcie slot (WIFI)        |

|    |                  |    |                                    |
|----|------------------|----|------------------------------------|
| 23 | DC 12V interface | 26 | USB2.0 interface                   |
| 24 | VGA interface    | 27 | LAN interface                      |
| 25 | COM interface    | 28 | AUDIO interface (1*LINE OUT、1*MIC) |

# ZA-P1800C2EE Mainboard Definition

## (1) Front panel Pin

| Location        | Pin | Definition          | Pin | Definition   |
|-----------------|-----|---------------------|-----|--------------|
| FP1<br>(2.54mm) | 1   | 3.3V                | 2   | Power LED    |
|                 | 3   | Hard Disk Drive LED | 4   | GND          |
|                 | 5   | Reset Switch        | 6   | Power Switch |
|                 | 7   | GND                 | 8   | GND          |
|                 | 9   | NC                  |     |              |

## (4/10) FUSB1/2/3 Pin

| Location          | Pin | Definition | Pin | Definition |
|-------------------|-----|------------|-----|------------|
| FUSB1<br>(2.54mm) | 1   | 5V_RUN     | 2   | 5V_RUN     |
|                   | 3   | USB_PN4    | 4   | USB_PN5    |
|                   | 5   | USB_PP4    | 6   | USB_PP5    |
|                   | 7   | GND        | 8   | GND        |
|                   | 9   | NC         | 10  | GND        |

| Location          | Pin | Definition | Pin | Definition |
|-------------------|-----|------------|-----|------------|
| FUSB2<br>(2.54mm) | 1   | 5V_RUN     | 2   | 5V_RUN     |
|                   | 3   | FDM1       | 4   | FDM2       |
|                   | 5   | FDP1       | 6   | FDP2       |
|                   | 7   | GND        | 8   | GND        |
|                   | 9   | NC         | 10  | GND        |

| Location          | Pin | Definition |
|-------------------|-----|------------|
| FUSB3<br>(2.54mm) | 1   | 5V_RUN     |
|                   | 2   | USB_PN4    |
|                   | 3   | USB_PP4    |
|                   | 4   | GND        |
|                   | 5   | NC         |

## (5) COM Pin

| Location         | Pin | Definition | Pin | Definition |
|------------------|-----|------------|-----|------------|
| COM1<br>(2.54mm) | 1   | NDCDA      | 2   | NSINA      |
|                  | 3   | NSOUTA     | 4   | NDTRA      |
|                  | 5   | GND        | 6   | NDSRA      |
|                  | 7   | NRTSA      | 8   | NCTSA      |
|                  | 9   | NR1A       |     |            |

## (6) FUN1/2 Pin

| Location | Pin | Definition | Pin | Definition |
|----------|-----|------------|-----|------------|
| FUN1     | 1   | 1RI        | 2   | 1RI-       |
|          | 3   | 1RI        | 4   | +V5S       |
|          | 5   | 1RI        | 6   | +12V       |

| Location | Pin | Definition | Pin | Definition |
|----------|-----|------------|-----|------------|
| FUN2     | 1   | 2RI        | 2   | 2RI-       |
|          | 3   | 2RI        | 4   | +V5S       |
|          | 5   | 2RI        | 6   | +12V       |

## (7) JPS Pin

| Location | Pin | Definition |
|----------|-----|------------|
| JPS      | 1   | KB_DATA    |
|          | 2   | KB_CLK     |
|          | 3   | GND        |
|          | 4   | MS_DATA    |
|          | 5   | MS_CLK     |
|          | 6   | GND        |
|          | 7   | +5V        |

## (8) LPT Pin

| Location     | Pin | Definition | Pin | Definition |
|--------------|-----|------------|-----|------------|
| LPT<br>(2mm) | 1   | P_STB_R    | 2   | P_AFD_R    |
|              | 3   | P_PD0_R    | 4   | ERR-       |
|              | 5   | P_PD1_R    | 6   | P_INIT_R   |
|              | 7   | P_PD2_R    | 8   | P_SLIN_R   |
|              | 9   | P_PD3_R    | 10  | GND        |
|              | 11  | P_PD4_R    | 12  | GND        |
|              | 13  | P_PD5_R    | 14  | GND        |
|              | 15  | P_PD6_R    | 16  | GND        |
|              | 17  | P_PD7_R    | 18  | GND        |
|              | 19  | ACK-       | 20  | GND        |
|              | 21  | BUSY       | 22  | GND        |
|              | 23  | PE         | 24  | GND        |
|              | 25  | SLCT       | 26  | NC         |



## (9) SPEAK Pin

| Location | Pin | Definition |
|----------|-----|------------|
| SPEAK    | 1   | SPKOUT_L-  |
|          | 2   | SPKOUT_L+  |
|          | 3   | SPKOUT_R-  |
|          | 4   | SPKOUT_R+  |

## (12/19) EDP1/2 Pin

| Location     | Pin | Definition | Pin | Definition |
|--------------|-----|------------|-----|------------|
| EDP<br>(2mm) | 1   | EDP_VDD    | 2   | EDP_VDD    |
|              | 3   | NC         | 4   |            |
|              | 5   | GND        | 6   | HPDET_EDP1 |
|              | 7   | EDP0N      | 8   | EDP0P      |
|              | 9   | EDP1N      | 10  | EDP1P      |
|              | 11  | NC         | 12  | NC         |
|              | 13  | GND        | 14  | GND        |
|              | 15  | EAUXN      | 16  | EAUXP      |
|              | 17  | NC         | 18  | NC         |
|              | 19  | NC         | 20  | NC         |

## (16) CPU\_FAN Pin

| Location | Pin | Definition |
|----------|-----|------------|
| CPU_FAN1 | 1   | GND        |
|          | 2   | +12V       |
|          | 3   | FAN_TAC    |
|          | 4   | FAN_CTL    |

## (21) LVDSP Pin

| LVDSP |      |
|-------|------|
| 1-2   | 3.3V |
| 3-4   | 5V   |
| 5-6   | 12V  |