

# NI-Z8350UL-V2 Quick Installation Guide-V1.0

## Tips:

How to identify the first pin of the jumpers and connectors

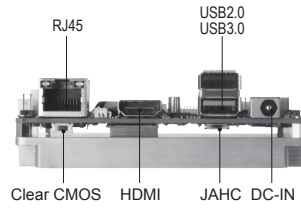
1.The first pin is marked as "1" or solder pad or bold lines or triangular symbols

2.The red line on the cable or other marks show that they should be connected with the first pin of the socket.

## Warning!

Please adopt appropriate screw and proper installation methods (including board allocation, CPU and heat sink installation, etc.); otherwise, the board may be damaged.

## Back Panel Interface:



## Connects:

### 1. PWRBTN

Pin#	Definition	Pin#	Definition
1	PBTN_MCU	2	GND
3	+5V	4	GND

### 2. 24Pin\_MUX

Pin#	Definition	Pin#	Definition
1	USB_DN2	2	+3.3V
3	USB_DP2	4	+1.8V
5	GND	6	GND
7	SDA_AUDIO	8	GPS_TXD
9	SCL_AUDIO	10	GPS_RXD
11	SDA	12	GPS_RTS
13	SCL	14	GPS_CTS
15	GND	16	PMC_PLT_CLK4
17	PWM0	18	I2S_1_CLK
19	PWM1	20	I2S_1_FS
21	GPIO_DFX4	22	I2S_1_TXD
23	GPIO_N8	24	I2S_1_RXD

### 3. F\_AUDIO (Front Panel Audio Header)

Be used connect to the second line-out and MIC in jacks that are at the front panel of you system

Pin#	Definition	Pin#	Definition
1	MIC_L_CONN	2	GND
3	MIC_R_CONN	4	NC
5	LINE_O_R	6	GND
7	JD1_1	8	NC
9	LINE_O_L	10	GND

### 4. Speaker

Pin#	Definition
1	SPO_RN
2	SPO_RP
3	SPO_LP
4	SPO_LN

### 5. UART(RS232 Header)

Be used with modems, serial printers, remote display terminals and serial devices

Pin#	Definition
1	GND
2	NRXD1
3	NTXD1
4	+5V

### 11. F\_USB (Front-end USB2.0 Pin)

Be used extension the front USB ports

Pin#	Definition
1	GND
2	USB_BACK1_DN_O
3	USB_BACK1_DP_O
4	VCC_USB

### 13. RESET

Pin#	Definition
1	GND
3	MASTER_RST

### 9. TF Cardreader

Be used extension the TF Card

### 8. INVT

LVDS MENU Adjustment control interface

Pin#	Definition
1	VIN_LVDS_F
2	VIN_LVDS_F
3	BKLT_EN
4	BKLT_PWM
5	GND
6	GND

### 7. LVDS

LVDS ( Dual-channel 24 bit LVDS Header )

Pin#	Definition	Pin#	Definition
1	LVDS_PWR	2	LVDS_PWR
3	LVDS_TX_CLKAP	4	LVDS_TX_CLKBP
5	LVDS_TX_CLKAN	6	LVDS_TX_CLKBN
7	GND	8	GND
9	LVDS_TX_A0P	10	LVDS_TX_B0P
11	LVDS_TX_A0N	12	LVDS_TX_B0N
13	GND	14	GND
15	LVDS_TX_A1P	16	LVDS_TX_B1P
17	LVDS_TX_A1N	18	LVDS_TX_B1N
19	GND	20	GND
21	LVDS_TX_A2P	22	LVDS_TX_B2P
23	LVDS_TX_A2N	24	LVDS_TX_B2N
25	GND	26	GND
27	LVDS_TX_A3P	28	LVDS_TX_B3P
29	LVDS_TX_A3N	30	LVDS_TX_B3N

### 6. LVDS\_PWR\_SEL

LVDS Power Select jumper

Pin#	Definition
1-2	12V
3-4	5V
5-6	3.3V