Package Contents

• KS101-BT Touch Panel PC
• One sheet of poron foam
• One HDD drive bay kit

Top View
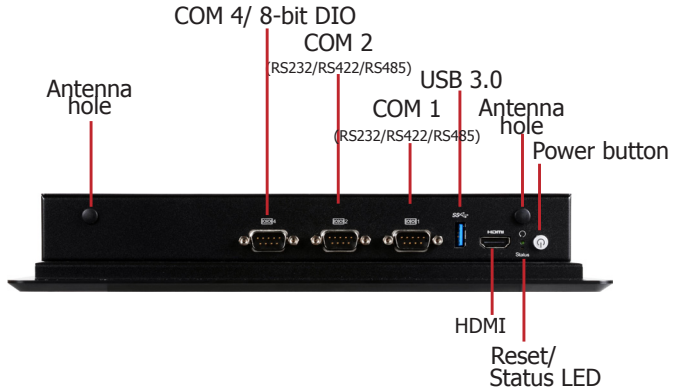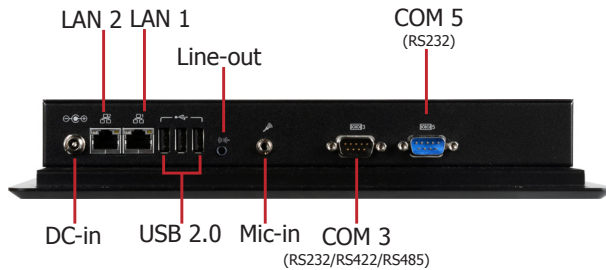
COM 4/ 8-bit DIO
COM 2
(RS232/RS422/RS485)
USB 3.0
Antenna hole
COM 1
(RS232/RS422/RS485)
Antenna hole
Power button

HDMI

Reset/ Status LED

Bottom View

LAN 2 LAN 1
Line-out
COM 5
(RS232)

DC-in
USB 2.0
Mic-in
COM 3
(RS232/RS422/RS485)

⊙ Removing the Chassis Cover

Make sure the system and all other peripheral devices connected to it have been powered-off.

1. Disconnect all power cords and cables.
2. The 8 mounting screws on the rear side of the system are used to secure the cover to the chassis. Remove these screws and put them in a safe place for later use.

Mounting screw

Mounting screw
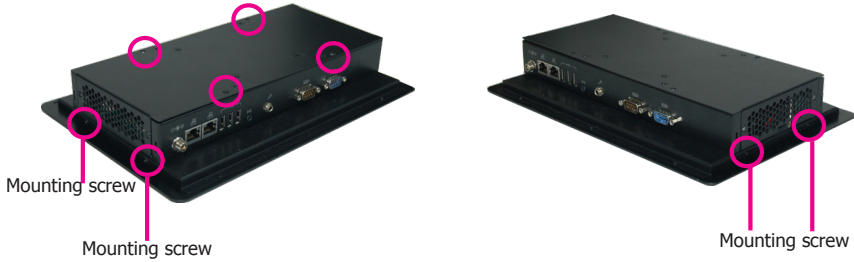
Mounting screw

⊙ Installing a SATA Drive

The system can accommodate one 2.5" SATA drive.

1. Align the mounting holes of the SATA HDD with the mounting holes on the HDD drive bay and use the provided mounting screws to attach the SATA HDD to the drive bay.
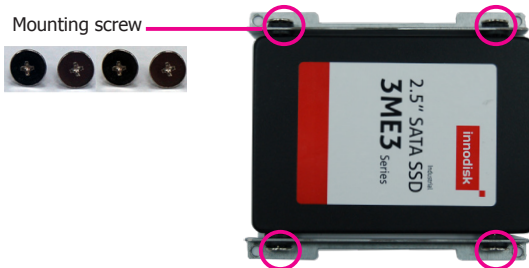
Mounting screw

2. Connect the SATA cable. Align the mounting holes of the HDD drive bay with the mounting holes on the system and use the provided mounting screws to secure the drive bay in place.

Mounting screw

SATA drive

SATA power/data cable
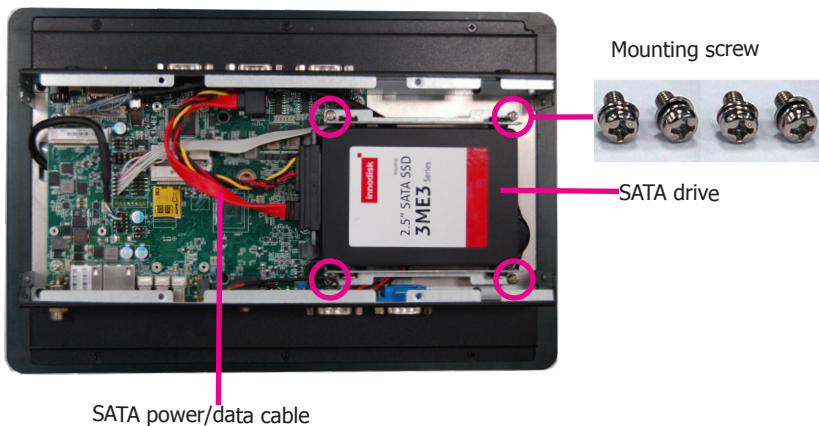
Installing a Mini PCIe Card

The system board is equipped with 3 Mini PCIe slots: two full-size and one half-size slots. Here we will demonstrate the installation of a full-size Mini PCIe card (working in conjunction with a SIM card) for 4G connectivity.
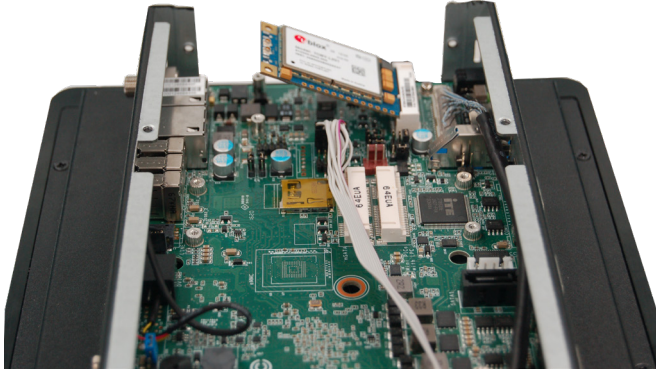
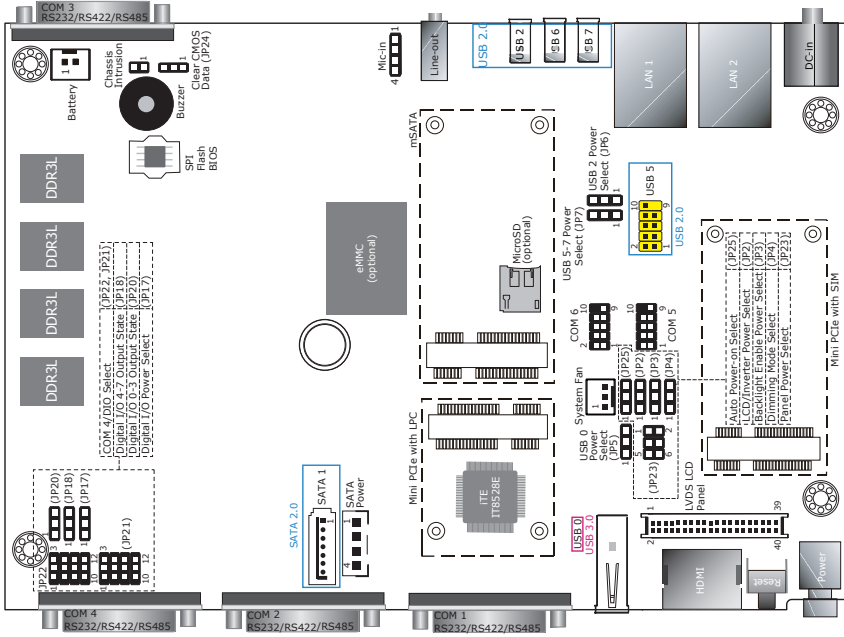1. Grasp the Mini PCIe card by its edges and align the notch in the connector of the PCIe card with the notch in the connector on the system board.

2. Push the Mini PCIe card down and use the provided mounting screws to secure the card on the system board.

Mounting screw

> **Note**:
> The system also has one additional full-size Mini PCIe and one half-size Mini PCIe slot that use the mSATA and LPC interface respectively.

Board Layout and Jumper Settings

COM 3 RS232/RS422/RS485
Battery
Chassis Intrusion
Buzzer
Clear CMOS Data (JP24)
SPI Flash BIOS
DDR3L
DDR3L
DDR3L
DDR3L
Mic-in
Line-out
USB 2.0
USB 2
USB 6
USB 7
LAN 1
LAN 2
DC-in
mSATA
MicroSD (optional)
eMMC (optional)
USB 2 Power Select (JP6)
USB 5
USB 2.0
USB 5-7 Power Select (JP7)
COM 6
COM 5
Mini PCIe with SIM
Auto Power-on Select
LCD/Inverter Power Select
Backlight Enable Power Select
Dimming Mode Select
Panel Power Select
System Fan
ITE IT8528E
USB 2 Power Select (JP5)
LVDS LCD Panel
[JP25]
[JP2]
[JP3]
[JP4]
[JP23]
COM 4/DIO Select
Digital I/O 4-7 Output State (JP18)
Digital I/O 0-3 Output State (JP20)
Digital I/O Power Select (JP17)
[JP22, JP21]
Mini PCIe with LPC
SATA 1
SATA Power
SATA 2.0
[JP20] [JP18] [JP17]
[JP21]
[JP22]
USB 2.0
USB 3.0
HDMI
Reset
Power
COM 4 RS232/RS422/RS485
COM 2 RS232/RS422/RS485
COM 1 RS232/RS422/RS485

USB Power Select: 0 (JP5), 1-2 (JP6), 5-7 (JP7)	
+5V_standby (default)	1-2 On
+5V	2-3 On

Clear CMOS Data	JP24
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

Panel Power Select	JP23
+12V	1-2 On
+5V	3-4 On
+3.3V (default)	5-6 On

Backlight Enable Power Select	JP3
+3.3V (default)	1-2 On
+5V	2-3 On

Dimming Mode Select	JP4
Voltage Mode	1-2 On
PWM Mode (default)	2-3 On

LCD/Inverter Power Select	JP2
+12V (default)	1-2 On
+5V	2-3 On

Auto Power-on Select	JP25
Power-on via power button (default)	1-2 On
Power-on via AC power	2-3 On

Digital I/O Output State	JP18 (DIO 4-7) JP20 (DIO 0-3)
GND (default)	1-2 On
+5V or +5V_standby	2-3 On

Digital I/O Power Select	JP17
+5V_standby	1-2 On
+5V (default)	2-3 On

COM 4/DIO Select	JP21, JP22
COM 4 (default)	1-2, 4-5 7-8, 10-11 On
DIO	2-3, 5-6 8-9, 11-12 On

Note:

You cannot use COM 4 and DIO at the same time. Please set up JP21 and JP22 together.