KS070-FS Installation Guide

Top Panel I/O Ports

SD   COM

Bottom Panel I/O Ports
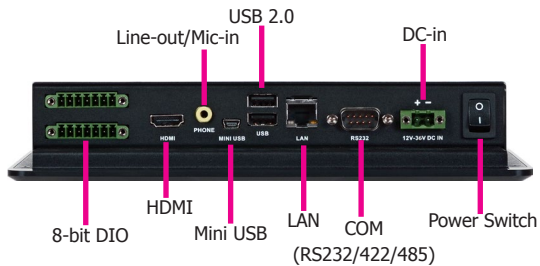
Line-out/Mic-in   USB 2.0   DC-in

8-bit DIO   HDMI   Mini USB   LAN   COM   Power Switch
(RS232/422/485)

Connecting the Cable to the Terminal Block

The system's power connector is a two-pole terminal block. Please insert the corresponding end ("+" or "-") of a power adaptor to the respective pole of the terminal block.

1.   Insert the cable end of the power adaptor to the terminal block. To firmly fix the cable into the terminal block, use a screwdriver to clamp down the wires to the screw that is in the terminal block.

Terminal block

Wire

Power adapter cable
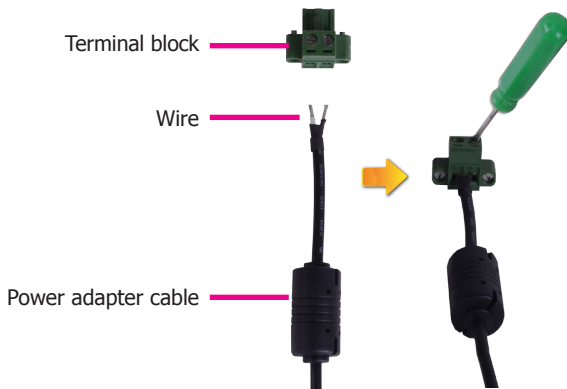
2. Plug the terminal block into the DC-in connector and then tighten the screws to secure the terminal block in place.

DC-in connector

Screws

+   -

White Wire   Black Wire
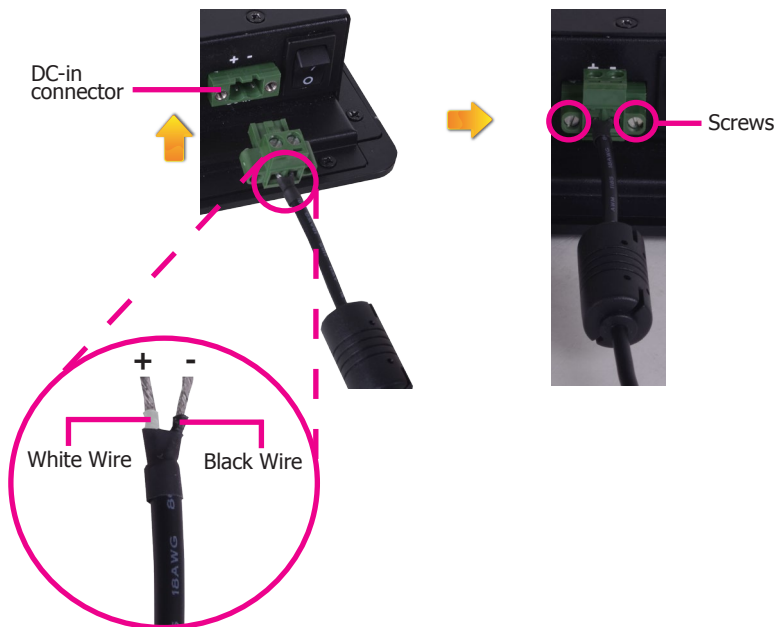
Removing the Chassis Cover

Before working inside the system, make sure the system has been powered off and disconnect all power cords and cables.

The 8 mounting screws on the sides and bottom of the system are used to secure the cover to the chassis. Remove these screws and the COM port screws.

Mounting Screw (COM port)

Mounting Screw

Installing the microSD Card

The microSD card slot is located on the Qseven module internally. You may need to remove the Qseven module first to access the card slot. Then insert the card straight into the socket.

microSD card

Qseven module
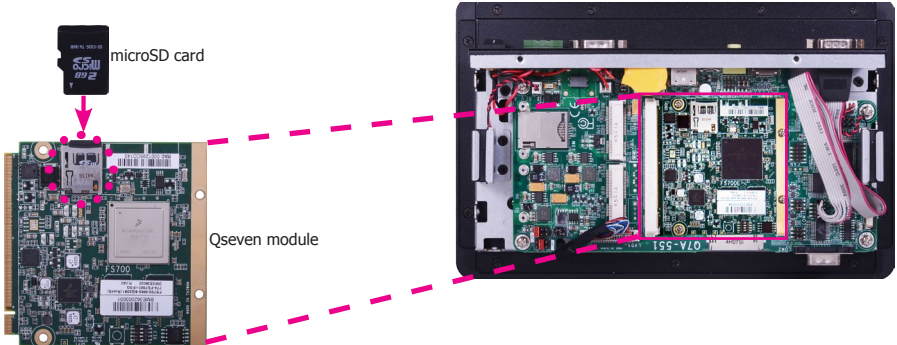
Installing a Mini PCIe and SIM Card

The system board is equipped with 2 Mini PCIe slots. One Mini PCIe slot (with SIM card slot) provides both USB and PCIe interfaces whereas the other Mini PCIe slot provides only mSATA interface.

Before inserting a SIM card into the socket, you have to remove mounting screws on the speaker. Insert the SIM card into the SIM card socket, and push it to take the card out of the socket.

Mini PCIe Slot

SIM card socket

mSATA Slot

Speaker

Mounting screw
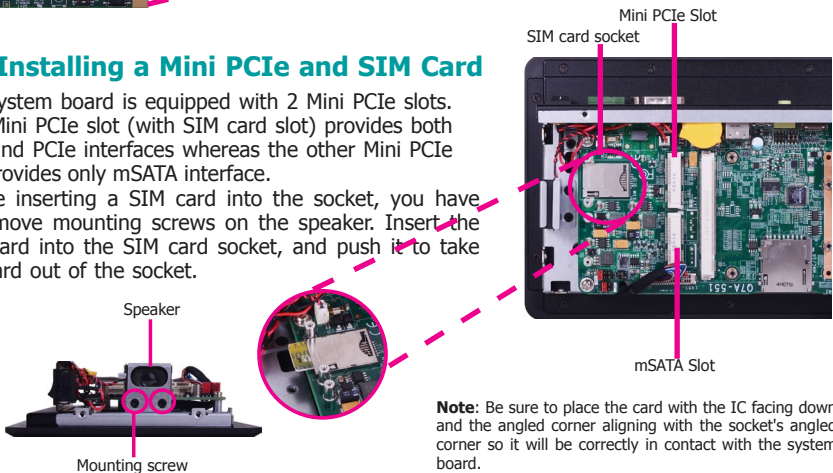
Note: Be sure to place the card with the IC facing down and the angled corner aligning with the socket's angled corner so it will be correctly in contact with the system board.

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Board Layout and Jumper Settings
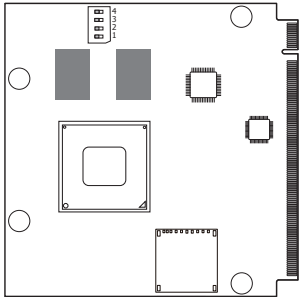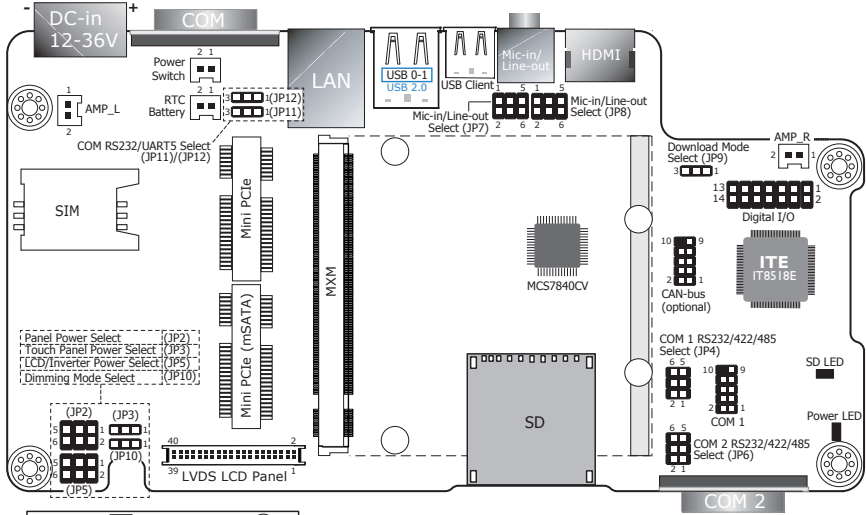
Boot Device Select	Switch
eMMC	1 Off, 2 Off, 3 On, 4 On
uSD	1 Off, 2 Off, 3 On, 4 Off
SPI3 on board SPI	1 On, 2 On, 3 Off, 4 On
SPI1 on carrier board	1 On, 2 Off, 3 Off, 4 On

Dimming Mode Select	JP10
PWM Mode (default)	1-2 On
Voltage Mode	2-3 On

Line-out/Mic-in Select	JP7 (for Line-out), JP8 (for Mic-in)
Line-out (JP7)	1-2, 3-4, 5-6 On
Mic-in (JP8)	1-2, 3-4, 5-6 On

COM 1 /COM 2 RS232/422/485 Select	JP4 (for COM 1), JP6 (for COM 2)
RS232 (default)	1-2 On
RS422	3-4 On
RS485	5-6 On

LCD/Inverter Power Select	JP5
+12V	1-2 On
+5V Standby (default)	3-4 On
+3V Standby	5-6 On

Dimming Mode Select	JP5
+12V	1-2 On
+5V Standby (default)	3-4 On
+3V Standby	5-6 On

LCD Panel Power Select	JP2
+12V	1-2 On
+5V Standby	3-4 On
+3V Standby (default)	5-6 On

Touch Panel Power Select	JP3
+5V Standby	1-2 On
+3V Standby (default)	2-3 On

Download Mode Select	JP9
Serial Download Mode	1-2 On
Normal Boot (default)	2-3 On