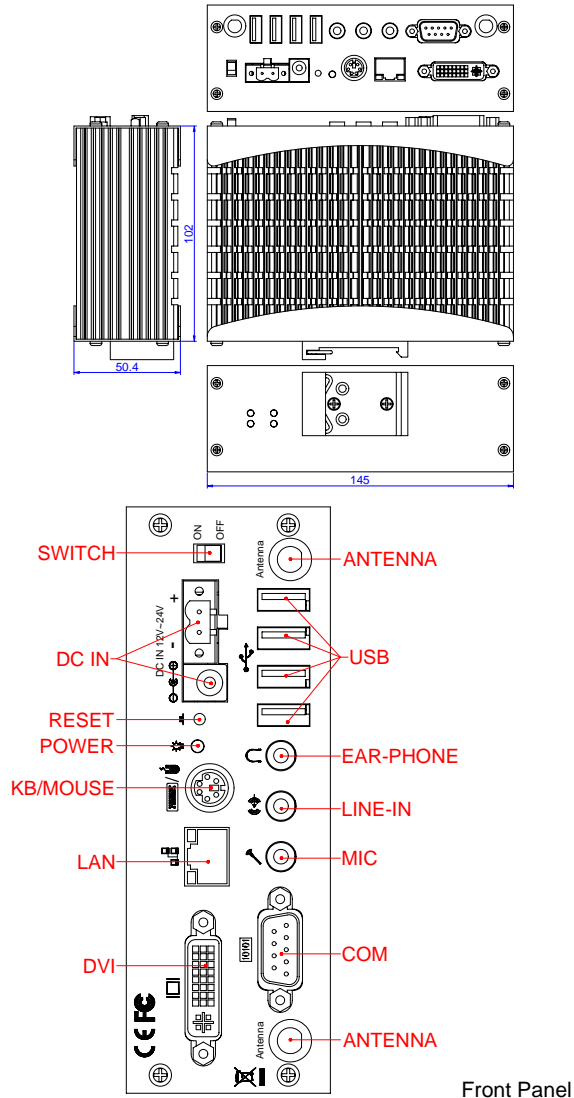## 1. Brief

The FX5321 is a compact size embedded system with Intel Atom N270 processor board inside. This user's quick reference provides the I/O outlets description and their pin assignment.

2. Dimensions (in mm) and Front Panel Information

102

50.4

145

SWITCH
ANTENNA
DC IN 12V~24V
DC IN
USB
RESET
POWER
KB/MOUSE
EAR-PHONE
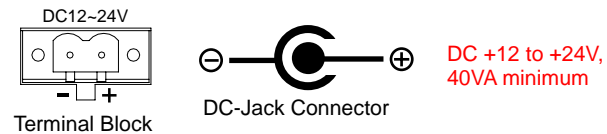LINE-IN
LAN
MIC
DVI
COM
ANTENNA

Front Panel

3. Packing List

1 FX5321 embedded system.
1 2.5" SATA hard disk installation kit with 6 screws.
1 DVI to CRT adapter kit.
1 Din Rail mounting kit with 2 screws.
1 2-pin apartable terminal block.
1 compact disc includes software utilities and manuals.

4. Features

* **Processor Board**
  Intel Atom N270 1.6GHz low power processor with 1GB DDR2 RAM.
* **I/O Outlets**
  One 10/100/1000 base-TX Ethernet port.
  4 USB ports, 1 RS232 serial port.
  1 VGA interface and 3 Audio connectors (1 Earphone, 1 Line-In, and 1 Microphone).
  1 DC-Jack and 1 terminal block for DC power input.
  1 power LED, 1 HDD/CF access LED, and 2 LAN LEDs.
  1 mini-Card socket (w/SIM socket) for 2G/3G or wireless modules.
  1 Push button reset switch.
* **Storage Bay**
  1 CompactFlash socket for CompactFlash modules or MicroDrives.
  One 2.5" SATA hard disk space.
* **Power requirement**
  +12 ~ +24V DC, 1.65A maximum (0.86A typical) with DC 19V input.
* **Dimensions**
  102.0mm(D) x 50.4mm(W) x 145mm(H)

5. More Informations for I/O outlets and LED Indicators

A. Power Connectors

DC12~24V

Terminal Block

DC-Jack Connector

DC +12 to +24V, 40VA minimum

B. Keyboard/Mouse Connector

Standard PS/2 keyboard can be plugged into this connector without any adapter cable. If PS/2 keyboard and mouse will be used simultaneously, the optional Y-type adapter cable is needed.
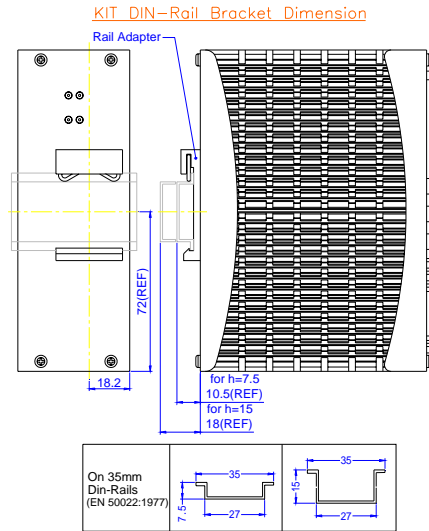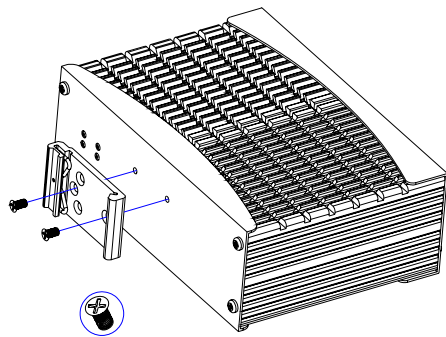
C. LAN LED Indicator (RJ45)

The LAN port is a RJ45 connector with 2 LEDs. The orange LED indicates data is accessing and the green LED indicates on-line status.

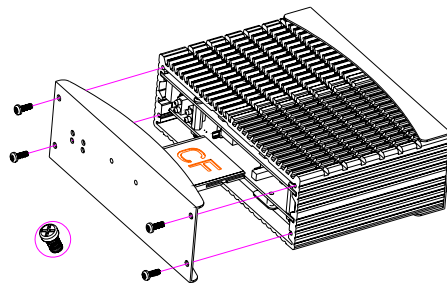## 6. Software Configuration and Driver Installation

Please refer to the driver installing documentation in the included Compact Disc for installing what device driver you need. If you need to change the system settings or configurations of I/O ports, Please refer to User's Manual (also in the included Compact Disc) for details.
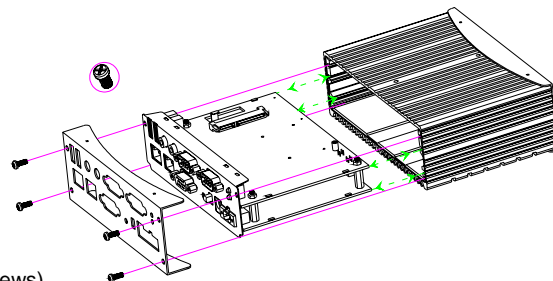
7. Installing the Din Rail Kit on FX5321

KIT DIN-Rail Bracket Dimension

Rail Adapter

72(REF)

18,2

for h=7.5
10.5(REF)
for h=15
18(REF)

On 35mm
Din-Rails
(EN 50022:1977)

35
27
7.5

35
27
15

Fixed 2 screws as figure shown and refer the right figure for installing dimensions.

8. Installing CompactFlash into FX5321

CF

9. Installing/Changing SATA Hard Disk, DDR2 RAM Module, and mini-Card module w/SIM on FX5321

Step 1: Open the outer rear panel (4 screws)

Step 2: Open the inner rear panel (4 hexagon screws)

Step 3: Separate the main board with daugther board. (3 screws)

RAM

Step 4: Installing the DDR2 RAM Module

Step 5: Installing SIM card if necessary.

SIM

PCI-E Mini

Step 6: Installing mini-card module and fix it well. (2 screws)

Step 7: Installing the Antenna(s).

HDD

Step 9: Installing SATA HDD with HDD kit (4+2 screws)

Step 8: Combine the main board and daugther board.

Step 10: Close case with reverse procedures of open the case.

End of Document