ARTiGO A1250

Quick Guide

Key Features:
- Ultra-slim, space saving, low noise and low power consumption
- Powered by 1.2GHz VIA Eden® X4 processor
- Support multiple I/O on dual access panel
- Quick installation, convenient to setup and easy maintenance.
- Optional Wi-Fi support and VESA mount

The ARTiGO A1250 is an ultra-slim size system powered by a high performance 1.2GHz VIA Eden® X4 processor. The ARTiGO A1250 system is designed to be space saving system with an elegant chassis that fits easily into any environment and is suitable for a broad spectrum of application, including media streaming, home automation, digital signage and surveillance.

The ARTiGO A1250 has a wide selections of interfaces on the front and back panel to easily support various applications, easy integration and quick setup. In addition, the ARTiGO A1250 is a low power consumption system and fully compatible with Windows and Linux operating systems.

Specifications:
- **CPU:**
  - 1.2GHz VIA Eden® X4
- **Chipset:**
  - VIA VX11H Advanced all-in-one system
- **System Memory:**
  - 1 x SODIMM slot supporting DDR3 1066/1333 MHz
  - Supports up to 8GB memory size
- **Graphics:**
  - Integrated VIA C-640 DX11 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
- **Storage:**
  - 1 x Hard disk bracket tray for 2.5" SATA HDD
- **LAN:**
  - VIA VT6130 Gigabit Ethernet controller
  - Support wake-on LAN and Boot from LAN (PXE)
- **Audio:**
  - VIA VT2021 High Definition Audio Codec
- **System Indicator:**
  - Power status LED (green LED)
  - HDD activity LED (red LED)

- **Watchdog Timer:**
  - System reset
  - Programmable 1 ~255 sec
- **BIOS:**
  - AMI Aptio UEFI BIOS, 32Mbit Flash memory
- **Front Panel I/O:**
  - 3 x Audio jacks: Line-in, Line-out and Mic-in
  - 2 x USB 2.0 ports
  - 1 x Red LED for HDD activity
  - 1 x Green LED for power status
  - 1 x Power on/off button
- **Back Panel I/O:**
  - 1 x Gigabit Ethernet port
  - 2 x USB 3.0 ports
  - 1 x VGA port
  - 1 x Mini HDMI port
  - 1 x DC-in jack
  - 1 x Antenna hole reserved to support Wi-Fi
  - 1 x DC plug strap holder hole
- **Power Supply:**
  - 12V DC-in (typical: 30W)
- **Dimensions:**
  - 177mm(W) x 30mm(H) x 125mm(D) (6.96" x 1.18" x 4.92")
- **Weight:**
  - 0.68kg (1.49lbs)
- **Mounting:**
  - VESA mount
- **Mechanical Construction:**
  - Aluminum top cover chassis housing
  - Galvanized steel sheet (SECC) body chassis housing
  - Front removable aluminum face plate
- **Operating Temperature:**
  - 0°C ~ 40°C

- **Storage Temperature**
  - -10°C ~ 60°C
- **Operating Humidity:**
  - 0% ~ 90% (non-condensing)
- **Compliance**
  - CE/FCC
- **Software Compatibility (Operating System):**
  - Windows 10
  - Windows 8.1
  - Windows 8
  - Windows 7
  - Windows XP
  - Windows XP Embedded Standard 2009
  - Windows Embedded Standard 7

Notes:
1. The ambient temperature and the CPU loadings affect the system fan rpm. Therefore, the higher rpm will generate higher fan noise (dB). The smart fan of ARTiGO A1250 system runs at lowest speed (default) at 25°C room temperature and when the CPU loading is less than 60%.
2. As the operating temperature provided in the specifications is a result of the test performed in VIA's chamber, a number of variables can influence this result. Please note that the working temperature may vary depending on the actual situation and environment. It is highly suggested to execute a solid testing and take all the variables into consideration when building the system. Please ensure that the system runs well under the operating temperature in terms of application.
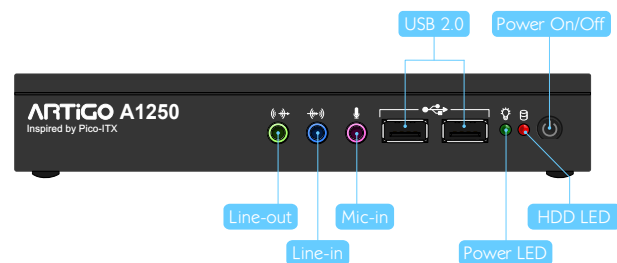
Packing List:
- 1 x ARTiGO A1250 system
- 1 x AC-to-DC power adapter
- 1 x Power cord
- 1 x SATA cable
- 1 x Screw park for HDD
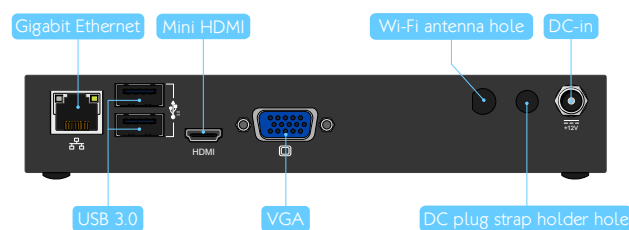- 1 x DC plug strap holder

Note:
Please ensure that all items in the packing list are present before using this product. If any of the items are missing or damaged, contact your distributor or sales representative immediately.
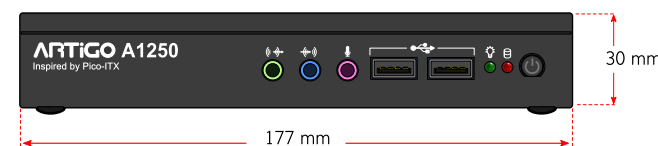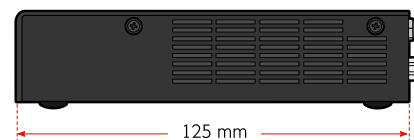

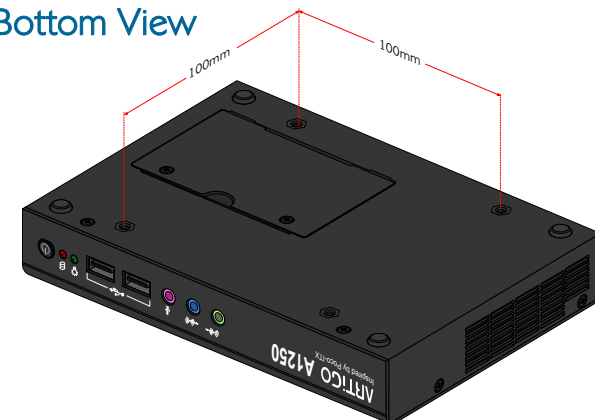## Layout Diagram

Front Panel I/O

Back Panel I/O

Dimensions

Front View

30 mm

177 mm

Side View
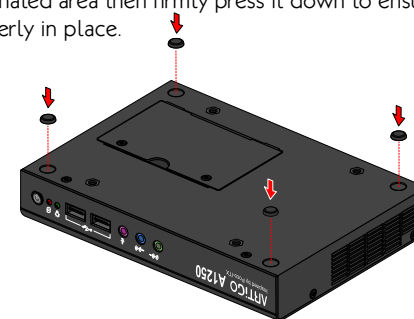

125 mm

Bottom View

100mm   100mm

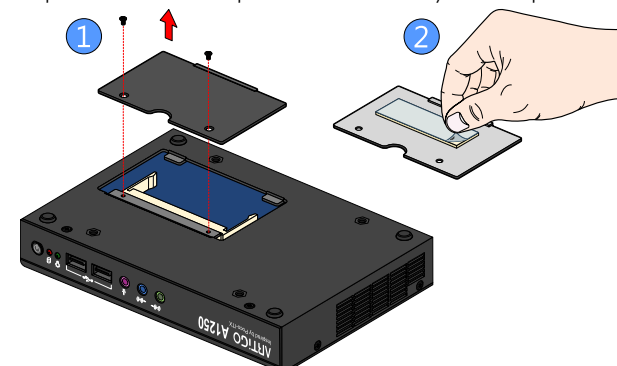## 1 Installing the Rubber Feet and Memory

Step 1
On the bottom side of ARTiGO A1250, attach carefully each rubber foot to the designated area then firmly press it down to ensure the rubber foot is properly in place.
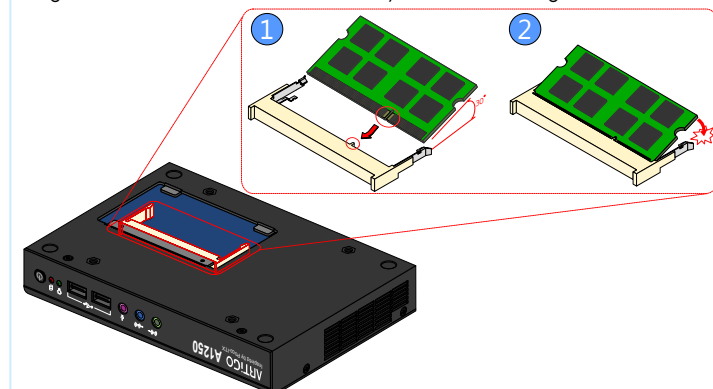

Step 2
Remove the two screws from the memory access cover then gently lift up the cover. Flip over the memory access cover and remove the protective plastic cover of the pre-installed memory thermal pad.
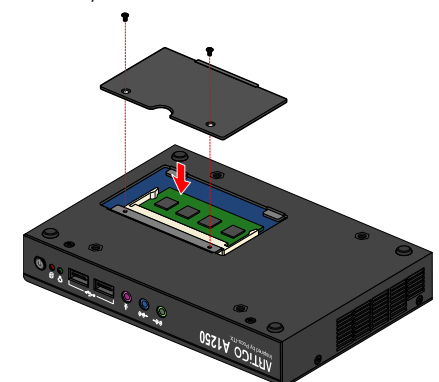

Step 3
Align the notch on the SODIMM memory module with the protruding wedge on the SODIMM slot. Gently insert the SODIMM memory module at a 30 degrees angle. Push down the SODIMM memory until the locking clips lock the memory module into place. There will be a slight tension as the SODIMM memory module is being locked.

Step 4
Reinstall the memory access cover and secure it with two screws.
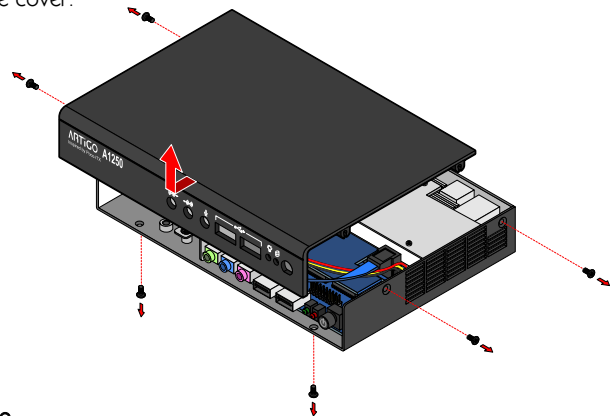
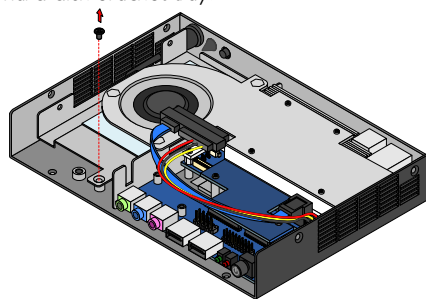## 2   Installing 2.5" SATA Hard Disk Drive

Step 1
Remove the six screws of the top cover from both sides and bottom side of the chassis. Slightly pull the cover horizontally then gently pull up the cover.
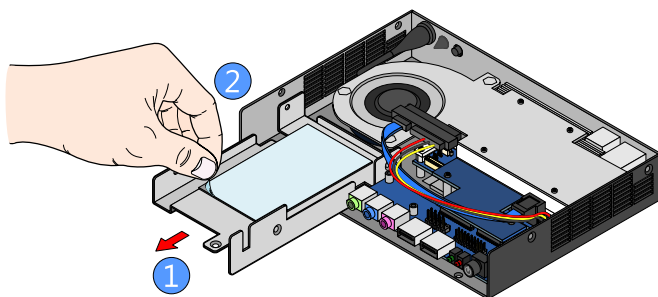
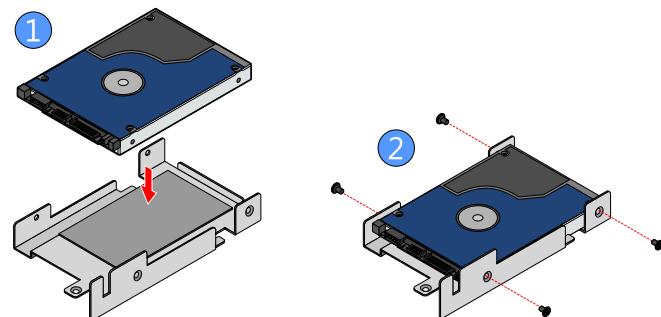### Step 2
Unscrew the hard disk bracket tray.

Step 3
Pull out the hard disk bracket tray. Then remove the cover plastic of the hard disk thermal pad.
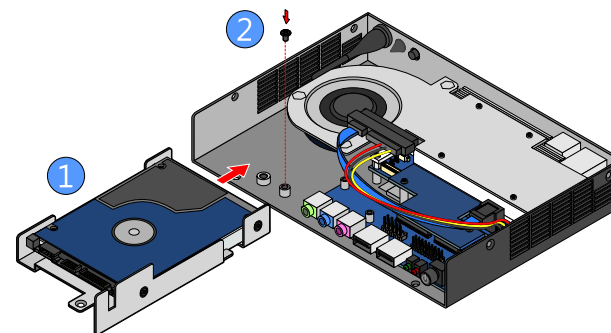
Step 4
Flip over the hard disk drive and install it to the hard disk bracket tray over the thermal pad. Make sure the plastic cover of the thermal pad has been removed before installing the hard disk. Then secure the hard disk with four screws.
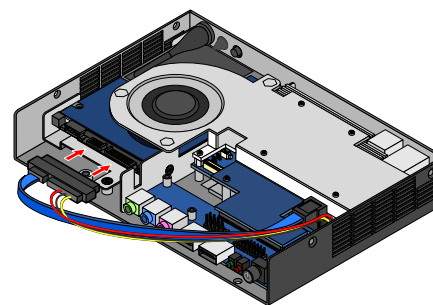
Step 5
Gently slide back the bracket tray with the 2.5" hard disk. Ensure that no wirings will be trapped while reinstalling the bracket tray. Secure the bracket tray with screw.

Step 6
Connect the SATA cable (power and data) to the hard disk drive.

3   Installing Wireless Accessories

This section provides information on how to install the wireless accessories to provide Wi-Fi connection.

Installing VNT9271 USB Wi-Fi Dongle

Step 1
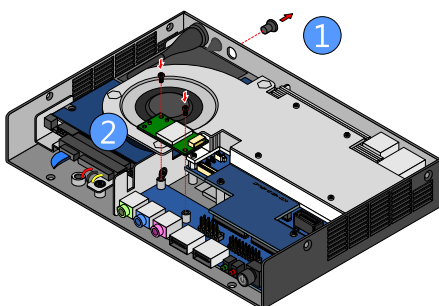Locate a USB 2.0 or USB 3.0 port on the panel I/O.

Step 2
Insert the VNT9271 USB Wi-Fi dongle in one of the USB 2.0 or USB 3.0 ports.

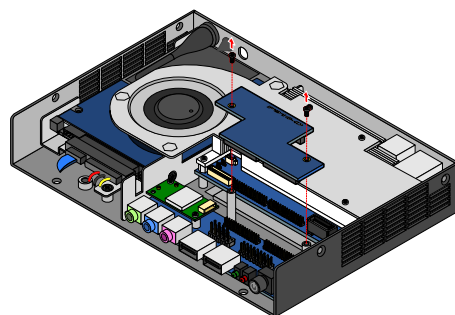## Installing EMIO-1533 USB Wi-Fi Module

Step 1
Remove the antenna hole cover from the back panel of the ARTiGO A1250. Mount the EMIO-1533 module on the P910-C daughterboard, and then secure the module with two screws.
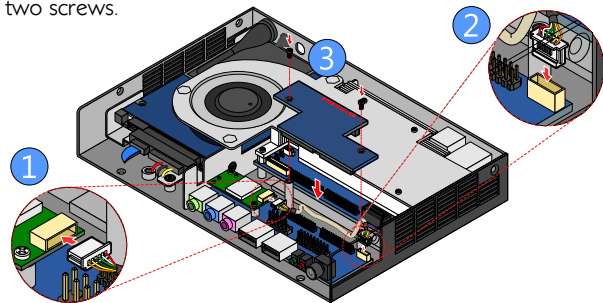
Step 2
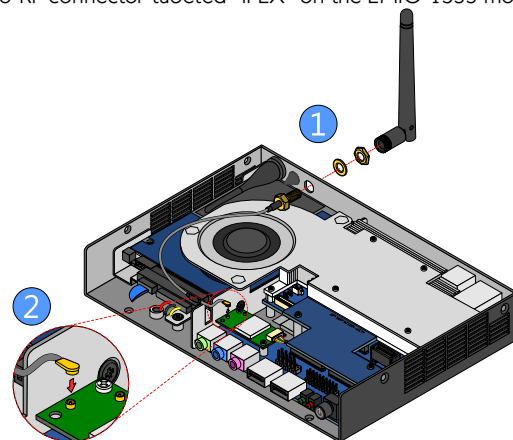Remove the P910-D bridge board connector.

Step 3
Connect one end of the USB Wi-Fi cable to the EMIO-1533 module, and connect the other end of the cable to the P910-C daughter board. The USB Wi-Fi cable must be laid out underneath the P910-D bridge board connector. Reinstall the P910-D bridge board connector and secure it with two screws.

Step 4
Insert the Wi-Fi antenna cable into the antenna hole from the inside of the chassis. Insert the washer, fasten it with the nut and install the external antenna. Connect the other end of the Wi-Fi antenna cable to the micro-RF connector labeled "IPEX" on the EMIO-1533 module.
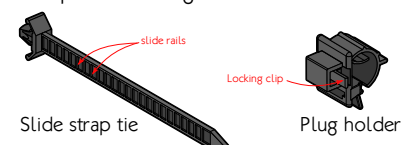
4   Installing the DC Plug Strap Holder

Step 1
Prepare the DC plug strap holder. The DC plug strap holder consists of two parts: Slide strap tie and Plug holder.

slide rails

Locking clip

Slide strap tie   Plug holder

Note:
The Plug holder has locking clip that controls the locking and releasing. Slightly pulling the locking clip will unlock the plug holder from the rail of slide strap tie.

Step 2
Remove the DC plug strap holder hole cover (rubber) from the back panel of the ARTiGO A1250. The hole is located between the antenna hole and DC-in jack.
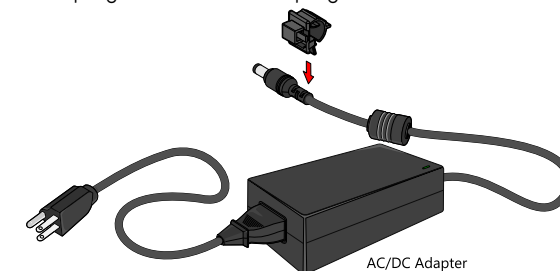
Step 3
Insert the slide strap tie into the hole. Make sure the slide rails are facing the left side as indicated in the figure.
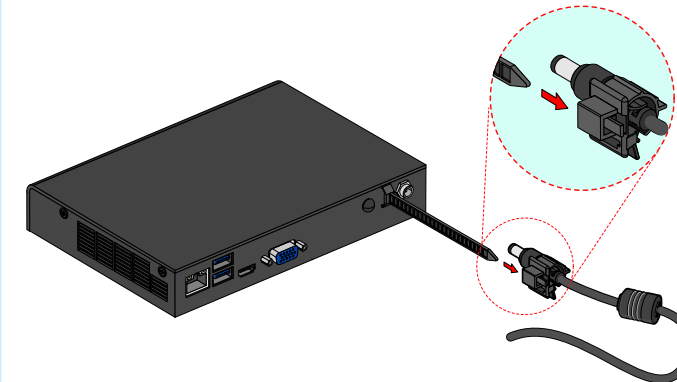
Step 4
Attach the plug holder to the DC plug cable.

AC/DC Adapter

Step 5
Insert the slide strap tie into the side of the plug holder. Slide in the plug holder deeply until the DC plug reaches the DC-in jack.