VIA embedded

# ARTiGO-A1150

## Quick Guide

## Key Features:

- Space saving, ultra compact design
- Onboard Gigabit Ethernet
- Four USB 2.0 host and one USB Device port
- One HDMI® and one VGA ports
- One drive bay for 2.5-inch SATA hard disk drive or SSD
- SD card reader and WLAN module (optional)

P/N: 99G51-013094-10

The ARTiGO-A1150 is an ultra compact embedded system. It's based on the VIA EPIA-P900 Pico-ITX form factor and powered by a high performance VIA Eden™ X2 processor. The ARTiGO-A1150 is designed with elegant chassis with dual I/O access plates for easy integration and quick setup.

## Specifications:

- **CPU:**
  VIA Eden™ X2 1.0GHz processor (800 MHz FSB)
- **System Chipset:**
  VIA VX900 Unified Digital Media IGP chipset
- **System Memory:**
  1 x DDR3 1066 MHz SDRAM SODIMM slot
  - Supports memory sizes up to 4 GB
- **Graphics:**
  Integrated VIA Chrome™ 9 HCM DX9 3D/2D AGP graphics with MPEG-2, H.264 and WMV9/VC1 video decoding accelerator
- **Storage:**
  - 1 x 2.5-inch SATA hard disk drive bay
  - 1 x SD card reader (optional)
- **LAN:**
  VIA VT6130G Gigabit Ethernet controller
- **Audio:**
  VIA VT2021 High Definition Audio Codec
- **System Indicator:**
  - Power Status (green LED)
  - Hard Disk Drive Activity (red LED)
- **BIOS:** AMI BIOS
  - 8 Mbit LPC Flash Memory
- **Front I/O:**
  - 2 x USB 2.0 host ports
  - 1 x USB device port
  - 3 x Audio jacks (Line-out, Line-in & Mic-in)
- **Rear I/O:**
  - 1 x VGA connector
  - 2 x USB 2.0 host ports
  - 1 x HDMI® port
  - 1 x RJ45 port (Gigabit Ethernet connection)
  - DC 12V Power Input connector
- **Side I/O**
  - 1 x SD slot (optional)
- **Dimensions:** 146 mm (W) x 52 mm (H) x 99 mm (D)
- **Weight:** 0.6 Kg (1.32 lbs)
- **Operating Temperature:** 0°C up to 45°C
- **Storage Temperature:** -10°C ~ 60°C
- **Humidity:** 0% ~ 90% relative humidity (non-condensing) @ 45°C

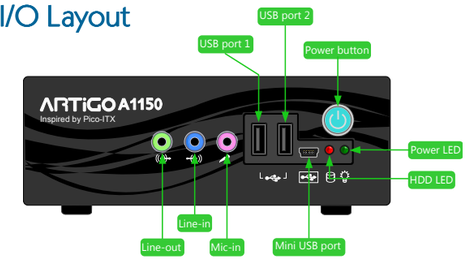
## Packing List:

- 1 x ARTiGO-A1150 system
- 1 x AC-to-DC adapter, DC 12V/5A, 60W
- 1 x Power cable, 180 cm
- 1 x Quick Guide

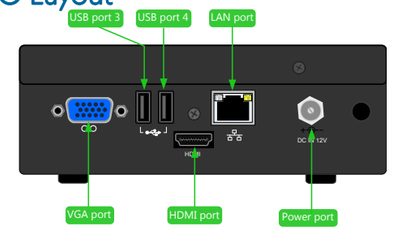
**Important:**
Please ensure that all items in the packing list are present before using this product. If any of the items are missing or damaged, contact your distributor or sales representative immediately.

Hard disk drive, CompactFlash disk, Flash SSD drive, SD card reader module and SD card, wireless LAN module, system memory module and operating system must be purchased separately.

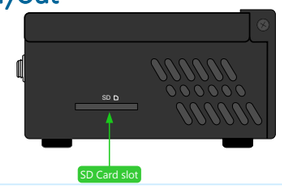
## Front I/O Layout




## Rear I/O Layout



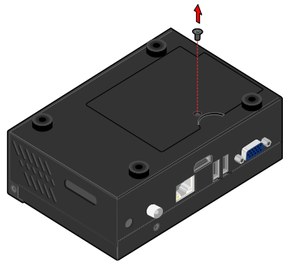

## Side I/O Layout




## 1 Installing the Memory

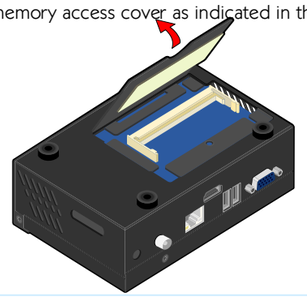
### Step 1

Locate the memory access cover on the bottom side of the ARTiGO-A1150 and remove the screw.



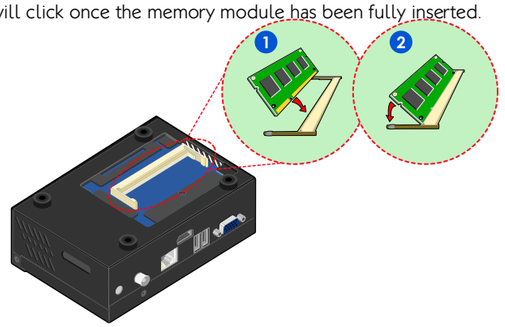
### Step 2

Remove the memory access cover as indicated in the figure below.



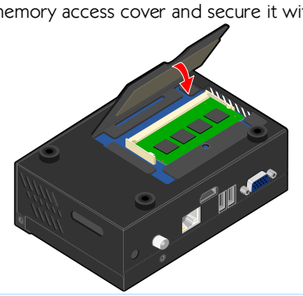
### Step 3

Insert the memory module into the SODIMM socket at the 45 degree angle. Then push down until the memory module snaps into place. The SODIMM socket has two locking mechanisms that will click once the memory module has been fully inserted.




### Step 4

Reinstall the memory access cover and secure it with screw.



## 2 Opening the Top Cover Chassis

### Step 1

Remove the screw of the top cover from the rear side of the ARTiGO-A1150.

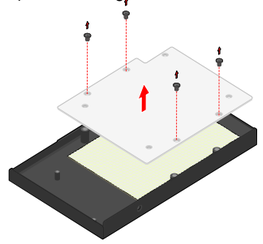
### Step 2

Then gently slide the top cover backward and lift off the top cover as indicated in the figure below.

## 3 Installing the SATA 2.5" Hard Disk

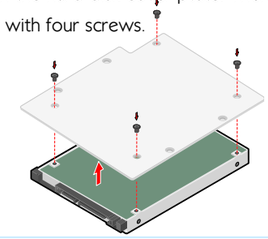
### Step 1

On the bottom side of the top cover, remove the SATA 2.5" hard disk cover plate by unscrewing the four screws.



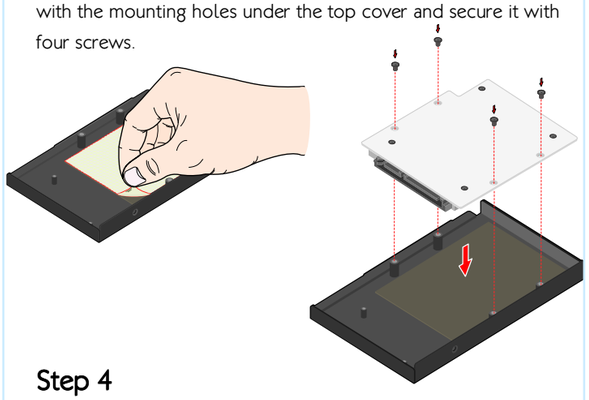
### Step 2

Attach the hard disk plate to the 2.5-inch SATA hard disk by aligning the mounting holes on the SATA 2.5" hard disk with the mounting holes on the hard disk cover plate. Then secure the hard disk in place with four screws.



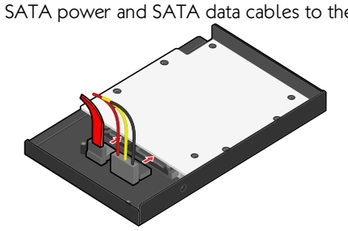
## Step 3

Remove the protective (plastic) layer of the hard disk thermal pad. Then reinstall the hard disk plate by aligning the cover plate with the mounting holes under the top cover and secure it with four screws.



## Step 4

Connect the SATA power and SATA data cables to the hard disk.



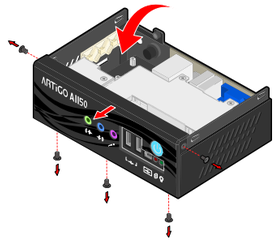
## Step 5

Replace the top cover onto the ARTiGO-A1150.

# 4 Installing the SD Card Reader

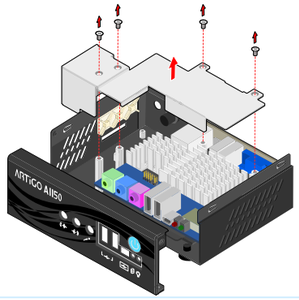
## Step 1

Locate the mounting area of SD card reader. Remove the five screws in order to remove the front panel plate.



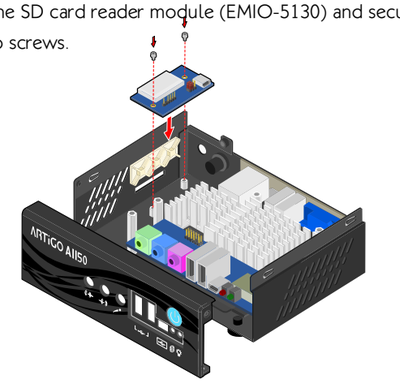
## Step 2

Remove the fan duct as indicted in the figure below.



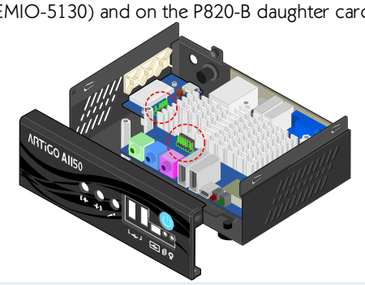
## Step 3

Mount the SD card reader module (EMIO-5130) and secure it with two screws.



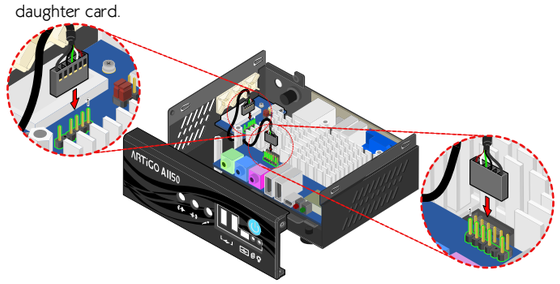
## Step 4

Locate the SD card reader pin headers on the SD card reader module (EMIO-5130) and on the P820-B daughter card.



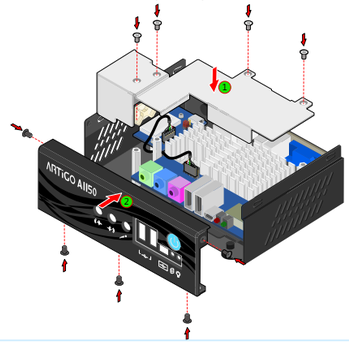
## Step 5

Gently connect the SD card reader cable to the pin header on the SD card reader module (EMIO-5130) and to the pin header on the P820-B daughter card.



## Step 6

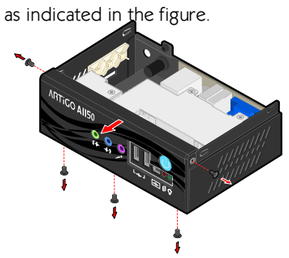
Properly route the SD card reader cable underneath the fan duct. Then reinstall the fan duct and front panel plate.



# 5 Installing the WLAN Kit

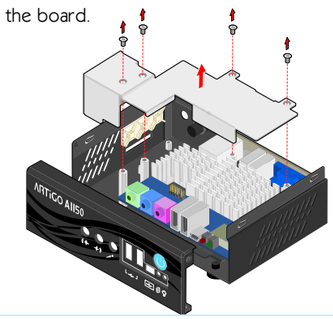
## Step 1

Remove the top cover and the front panel plate by unscrewing the five screws as indicated in the figure.



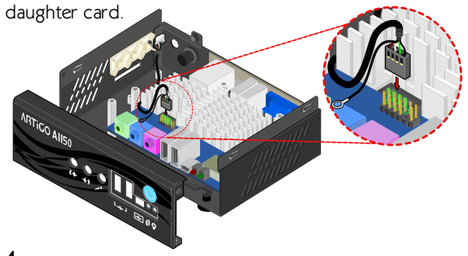
## Step 2

Remove the four screws indicated by the red arrows and carefully lift the fan duct off the board.



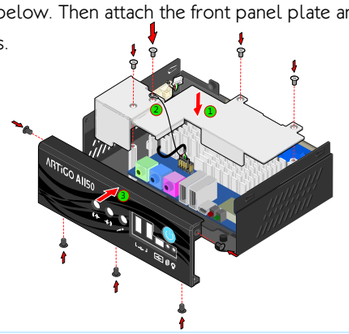
## Step 3

Locate the WLAN pin header on the P820-B daughter card. Then gently connect the WLAN USB cable to the pin header on the P820-B daughter card.



## Step 4

Make sure that the WLAN USB cable is properly routed underneath the fan duct before reinstalling it. Connect the grounding cable to one of the screws of the fan duct as indicated in the figure below. Then attach the front panel plate and secure it with screws.

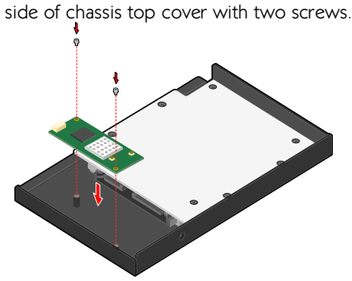


## Step 5

Locate the WLAN antenna hole at the rear side of the chassis and install the WLAN antenna.

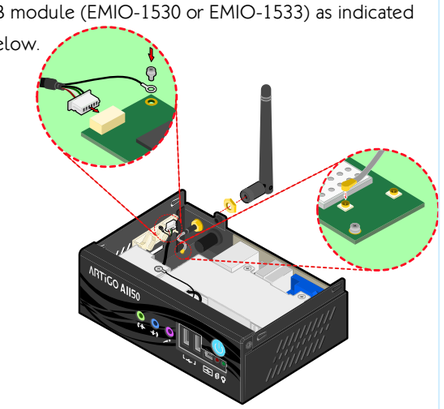
## Step 6

Mount the WLAN USB module (EIMO-1530 or EMIO-1533) on the bottom side of chassis top cover with two screws.



## Step 7

Connect the WLAN USB cable to the mini connector on the WLAN module and the grounding cable to the screw area. Then connect the WLAN antenna cable to the micro RF connector on the WLAN USB module (EMIO-1530 or EMIO-1533) as indicated in the figure below.



## Step 8

Reinstall the top cover of the ARTiGO-A1150.

For more information on this and other VIA products, please visit www.viaembedded.com

For further support and service, please visit www.via.com.tw


VIA Technologies, Inc.

1F, 531, Zhong-zheng Road, Xindian District, New Taipei City 231, Taiwan

Tel: 886-2-2218-5452
Fax: 886-2-2218-5453
Web: www.via.com.tw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