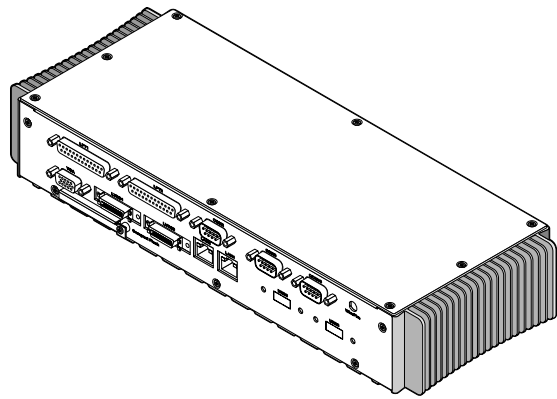


# AMOS-5210

## Quick Guide



### Key Features:

- Fanless operation
- Quick installation and easy maintenance
- Modularized design with compact dimension
- Easy to use, interchangeable and customizable front and rear panels
- Built-in common I/O functional cutouts for an easy external access

P/N: 99G51-013024-10

The VIA AMOS-5210 is a rugged chassis kit, specially designed for VIA EITX-3000 Em-ITX board stacked with EMIO-3210 Em-IO module. The chassis kit offers fast and easy assembly. It consists of three parts: front and rear I/O access plates, and the top cover.

The modularity of AMOS-5210 chassis kit combines with heatsink found on EMIO-3210 board forming a solid and robust system chassis. And it gives the developers a wealth of advantages including rich and versatile I/O configurations through its expansive dual I/O coastline.

A system with the combination of AMOS-5210 chassis kit, EITX-3000 board and EMIO-3210 module can support up to ten serial ports (eight RS-232/422/485 ports are configurable in BIOS setup) and two parallel ports. The combination is ideally suited for Kiosk and industrial automation embedded applications.

### Specifications:

- **Chassis Construction:**
  - Front and rear I/O metal face plate
  - Top cover metal plate
  - Aluminum bottom chassis housing mixed copper heat-pipe (installed with EITX-3000 board)
- **Front I/O support:**
  - 2 x 3.5Φ Audio jacks (default audio cable)
    - Line-out and Mic-in
  - 7 x Serial ports (COM ports)
    - D-Sub 9-pin COM connector
    - COM1 ~ COM4 (two RS-232 and two RS-232/422/485) from EITX-3000
    - COM 5 ~ COM 7 (three RS-232/422/485) from EMIO-3210
  - 1 x GPIO port (default GPIO cable connector)
    - D-sub 9-pin GPIO male connector
  - 2 x USB ports (onboard USB connector)
    - USB 2.0 compliant

- 1 x DC-in port (onboard power input)
  - 2-pole Phoenix power input
- 1 x ATX Power On/Off button
- 1 x Green LED indicator (Power On/Off status)
- 1 x Red LED indicator (HDD activities status)
- **Rear I/O support:**
  - 1 x VGA connector
    - D-sub 15-pin VGA connector
  - 2 x LVDS connectors
    - DB-26 connectors as LVDS1 and LVDS2
  - 2 x GigaLAN connectors
    - RJ-45 connectors
    - GigaLAN connectors as LAN1 and LAN2
  - 2 x Parallel ports
    - D-Sub 25-pin parallel ports (LPT1 and LPT2)
  - 3 x Serial ports (COM ports)
    - D-Sub 9-pin COM connector
    - COM8 ~ COM10 (three RS-232/422/485) from EMIO-3210
- **Board-level support:**
  - Compatible with VIA EITX-3000 embedded board and EMIO-3210 module
- **Drive bay:**
  - Default support 1 x 2.5" hard disk drive bay located on the aluminum bottom housing (from EMIO-3210)
  - Default support 1 x CompactFlash (CF) socket (from EITX-3000)
- **Mounting (optional):**
  - Supports table mounting and wall mounting
- **Dimension after assembly:**
  - 330.6 mm (W) x 54.2 mm (H) x 124.8 mm (D)
- **Weight (front, rear and top cover plates):**
  - 0.7 kg

- **Barebones weight (after assembly):**
  - 2.4 kg (plates and aluminum bottom housing)
- **Operating Temperature:**
  - 0°C up to 45°C (system equipped HDD)
  - -20°C up to 55°C (system equipped CF card)
- **Storage Temperature:**
  - -20°C up to 60°C
- **Relative Humidity:**
  - 0 % to 90 % @ 45°C, non-condensing
- **EMC approved:**
  - CE, FCC, CCC Class A
- **Safety approved:**
  - CB, CCC

### Packing List:

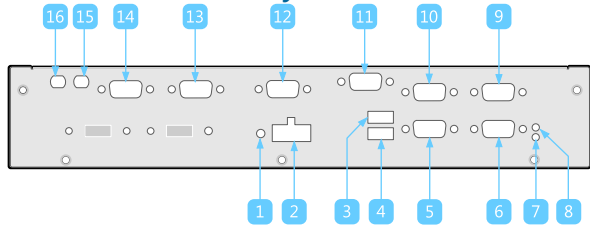
- 1 x Front I/O plate (P/N: 99G42-091676-A1)
- 1 x Rear I/O plate (P/N: 99G42-091686-A1)
- 1 x Top cover plate (P/N: 99G42-091666-A1)
- 2 x Hex spacer kit (P/N: 99G44-030221)
- 1 x Screw pack (P/N: 99G44-030231)
  - 23 x M\*3.5 mm screws
- 1 x GPIO cable (P/N: 99G33-080185)
- 1 x Audio jacks cable (P/N: 99G33-09039A)
- 1 x CF cover (P/N: 99G42-090886-A0)
- 1 x SATA (data and power) cable (P/N: 99G33-02093F)
- 1 x Antenna cover (P/N: 99G43-120011)
- 1 x Quick guide (P/N: 99G51-013024-10)



### Note:

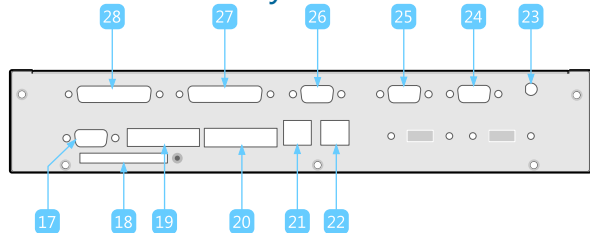
Please ensure that all items in the packing list are present before using this product. If any of the items are missing or damaged, contact your distributor or sales representative immediately.

### Front I/O cutout layout



Item	Description	Item	Description
1	Power button (Power On/Off)	9	COM3 port (RS-232)
2	DC-in power input connector	10	COM4 port (RS-232)
3	USB 2.0 port 1 (USB1)	11	GPIO port
4	USB 2.0 port 2 (USB2)	12	COM5 port (RS-232/422/485)
5	COM2 port (RS-232/422/485)	13	COM6 port (RS-232/422/485)
6	COM1 port (RS-232/422/485)	14	COM7 port (RS-232/422/485)
7	Power LED indicator	15	Mic-in jack
8	HDD LED indicator	16	Line-out jack

### Rear I/O cutout layout

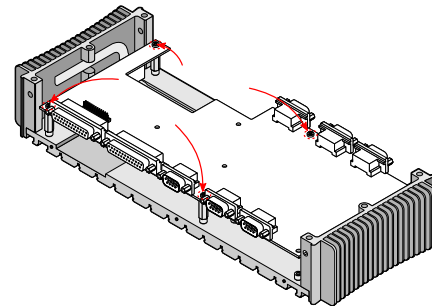


Item	Description	Item	Description
17	VGA port	23	WLAN antenna hole
18	CompactFlash slot	24	COM10 (RS-232/422/485)
19	LVDS port 1 (LVDS1)	25	COM9 (RS-232/422/485)
20	LVDS port 2 (LVDS2)	26	COM8 (RS-232/422/485)
21	RJ-45 GigaLAN port 2 (LAN2)	27	LPT port 2 (LPT2)
22	RJ-45 GigaLAN port 1 (LAN1)	28	LPT port 1 (LPT1)

## 1 Installing EITX-3000, 2.5" HDD & Memory

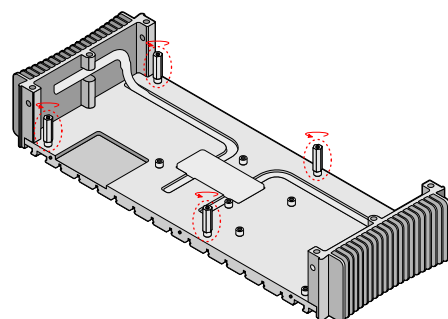
### Step 1

Remove the four screws indicated by the red arrows and carefully lift the EMIO-3210 module off the heatsink.



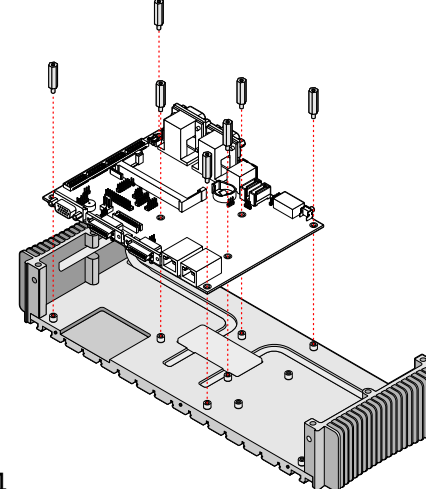
### Step 2

Remove the four spacers indicated by the red ovals. Turn the spacers in the counterclockwise direction to loosen.



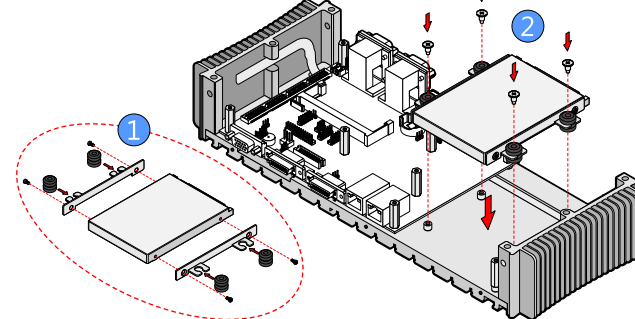
### Step 3

Align the EITX-3000 board over the mounting holes and secure it to the heatsink using the seven medium length spacers.



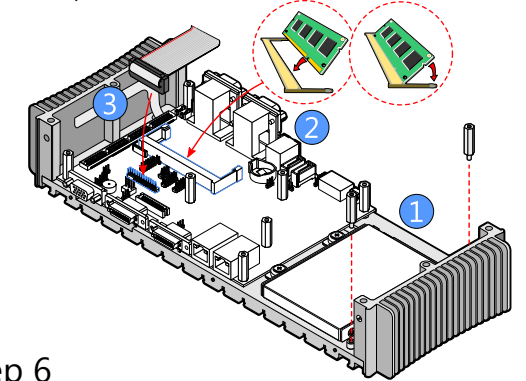
### Step 4

After the hard disk brackets have been attached to the hard disk, mount the brackets to the heatsink. Secure the brackets in place with the four bracket screws.



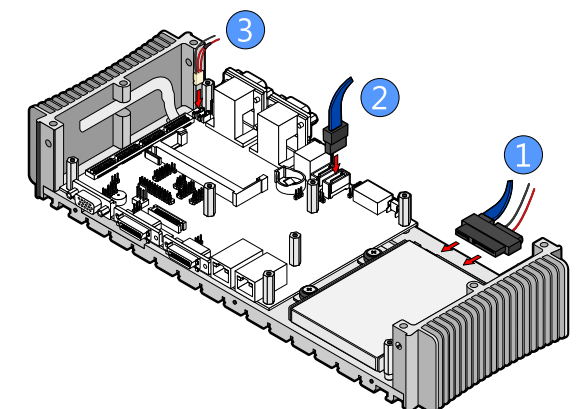
### Step 5

Install the long spacers. After that, insert the memory module into the SODIMM socket at the 45 degrees angle and push down until the memory module snaps into place. Then attach one end of the LPT cable to LPT pinhead connector on the EITX-3000 board.



### Step 6

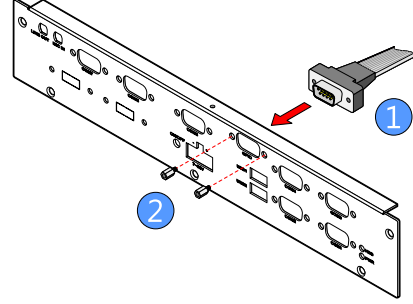
Connect the SATA (power and data) cables to the hard disk and onto the EITX-3000 board connector.



## 2 Installing the GPIO connector

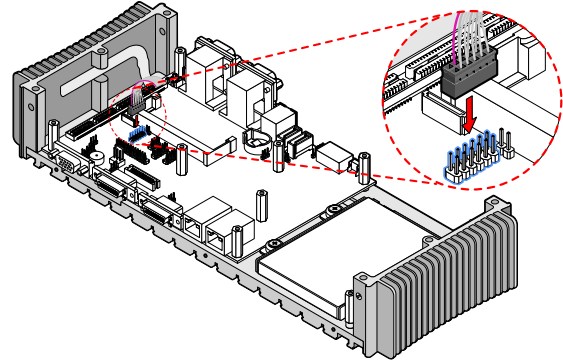
### Step 1

Insert the D-sub 9-pin GPIO connector into the GPIO cutout and fasten the provided standoff screws to secure the connector.



### Step 2

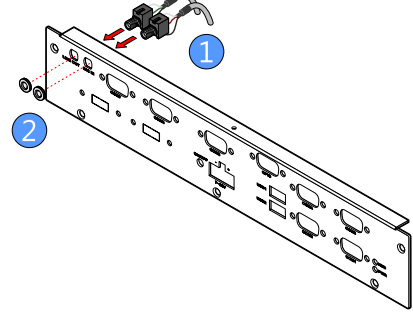
Locate the GPIO pin header on the EITX-3000 board and gently connect the other end of GPIO cable to the pin header.



## 3 Installing the audio jack cable

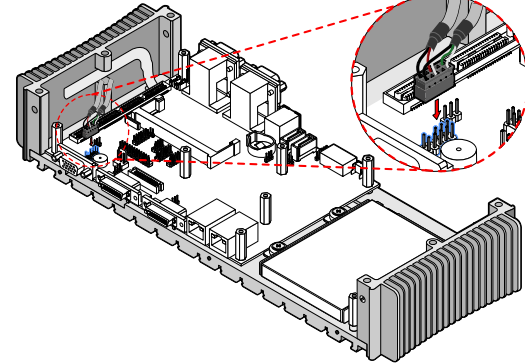
### Step 1

Insert the two audio jacks into the audio cutout. Then fasten the audio jacks in place with the nuts respectively.



### Step 2

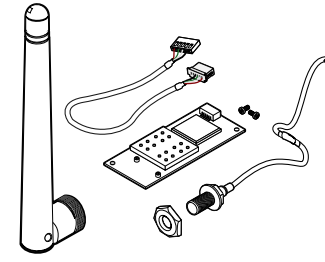
Locate the audio pin header on the EITX-3000 board and gently connect the other end of audio jack cable to the pin header.



## 4 Installing the WiFi module (optional)

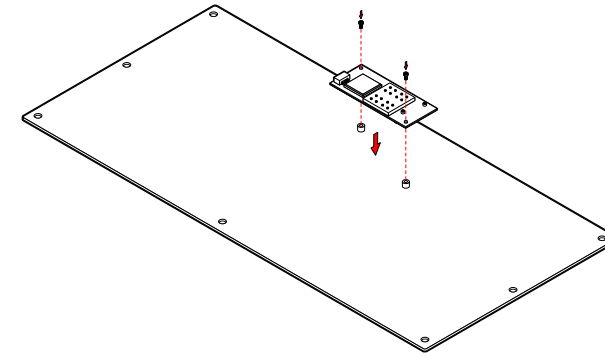
### 4

The WiFi kit should include the WiFi module, two screws, one board-to-board cable, one mini coaxial cable, one washer, one nut, and one external antenna. The optional WLAN module includes a VT6656 WLAN controller and provides support for 802.11 b/g standards.



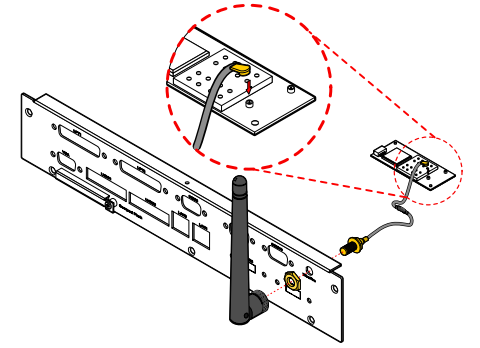
### Step 1

Flip the top cover and align the WLAN module over the WLAN mounting holes.



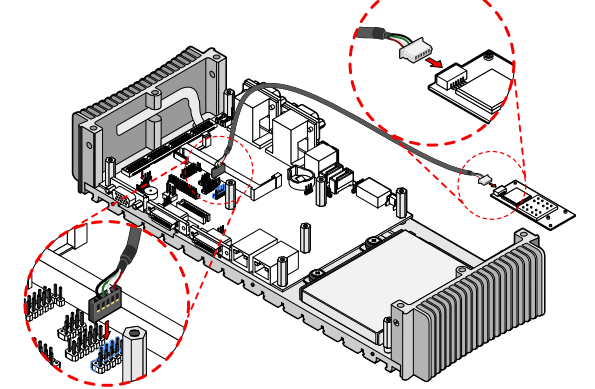
### Step 2

Insert the WLAN port (with washer) into the antenna cutout and fasten it with the nut. Then install the external antenna and connect the mini coaxial cable to the mini RF connector onto WLAN module.



### Step 3

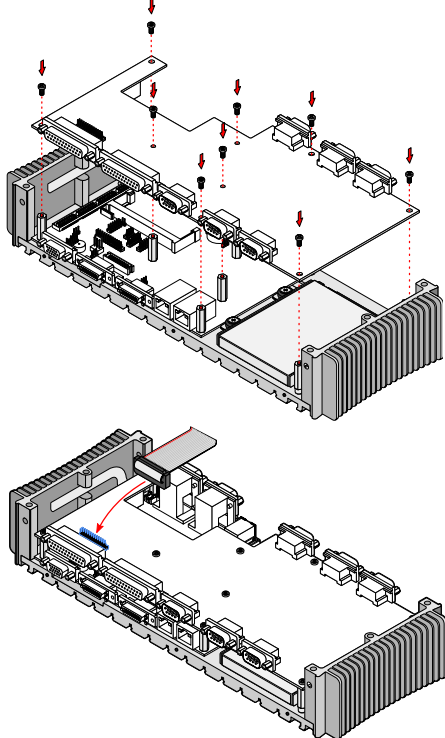
Gently connect the WLAN board-to-board cable to the USB pin header on the EITX-3000 board and to the mini connector on the WLAN module.



## 5 Installing front, rear and top plate

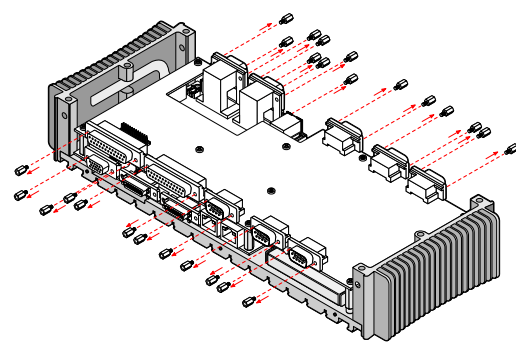
### Step 1

Align the EMIO-3210 module with the spacers, and secure the module to the spacers with the nine mounting screws. (M3\*6mm). Then connect the other end of LPT cable to pinhead connector.



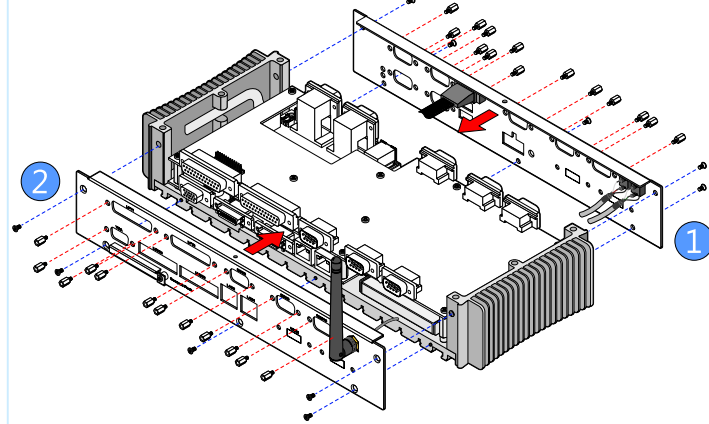
### Step 2

Remove all standoff screws from the front and rear I/O connectors of the EMIO-3210 module.



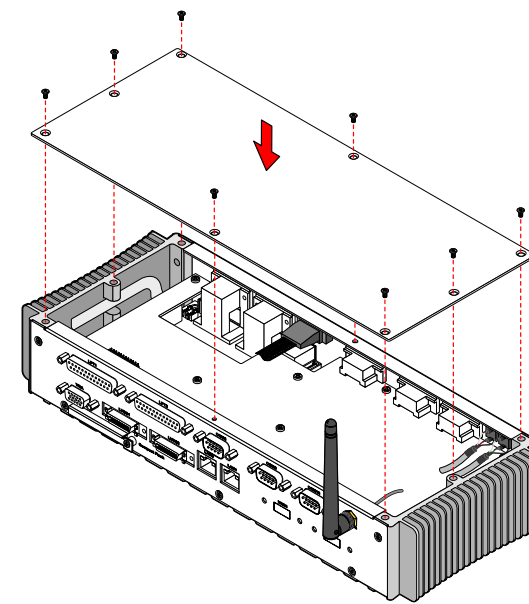
### Step 3

Align the front and rear I/O plates to the heatsink of the EITX-3000 board stacked with EMIO-3210 module. And reinstall all the standoff screws (P/N: 99G44-030221) to the front and rear connectors.

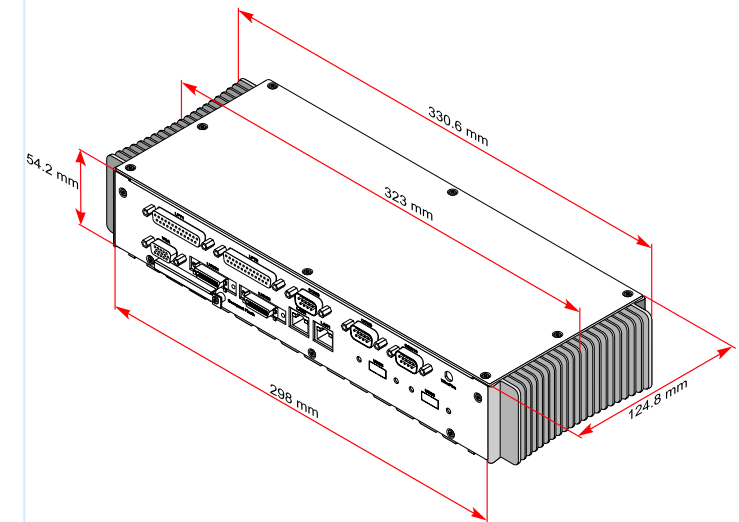


### Step 4

Align the top cover over the mounting holes on the heatsink. Then secure the top cover with eight mounting screws.



## Dimensions



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For further support and service, please visit [www.via.com/tw/en/products/mainboards/contact.jsp](http://www.via.com/tw/en/products/mainboards/contact.jsp)

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