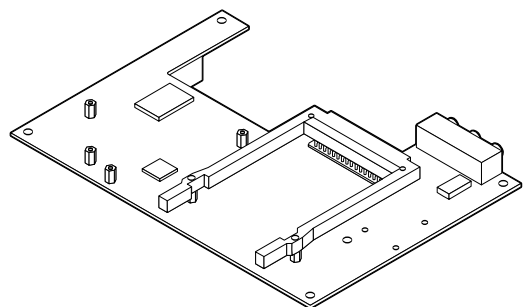


EMIO-3430

Quick Guide



Key Features:

- Supports PCMCIA and CardBus expansion cards
- Integrated 6W stereo audio power amplifier
- Compatible with EITX-3000
- Optional support for WiFi, GPS, and Bluetooth

P/N: 99G51-012974-10

The EMIO-3430 Em-IO card supports one PC card slot and three optional wireless modules. The PC card slot supports PCMCIA or CardBus expansion cards. The three optional wireless modules provide support for 802.11b/g Wireless LAN, GPS, and Bluetooth.

In addition, the EMIO-3430 offers HD Audio quality via a built-in 6W stereo audio power amplifier. The EMIO-3430 is an ideal solution for traffic, delivery and fleet management, as well as KIOSK and wireless POI applications.

Specifications:

- **I/O Controllers:**
VT1211 LPC UART controller
VT6212L PCI USB 2.0 controller
- **Bridge:**
Tundra Tsi382 PCIe-to-PCI Bridge
- **PC Card Interface:**
 - Rich R5C803 PC card controller
 - Supports One PC card slot
 - Supports CardBus (32-bit)
 - Supports PCMCIA 2.1 / JEIDA 4.2 (16-bit)
 - Supports +5V, +3.3V, and +12V @ 120 mA
- **Audio:**
 - TI TPA1517 6W stereo audio power amplifier
 - 3 x 3.5mm TRS jacks: Line-in, Speak-out, Mic-in
- **Dimensions:** 170 mm (W) x 120 mm (L)
- **Operating Temperature:** 0°C ~ 60°C
- **Humidity:** 0% ~ 90% relative humidity, non-condensing

Packing List:

EMIO-3430-00A1

- 1 x EMIO-3430 Em-IO card
- 1 x board-to-board audio cable (P/N: 99G33-190546)
- 1 x hex spacer kit (P/N: 99G44-020192)
— 6 x M3*5.5*19mm
- 1 x quick guide (P/N: 99G51-012974-10)

EMIO-3430-01A1

All of the above plus:

- 1 x EMIO-1531 Bluetooth module kit
- 1 x EMIO-1532 GPS module kit
- 1 x EMIO-1530 WLAN module kit (US version)
- 1 x Software driver and utility CD (P/N: 99G64-021261-100)

EMIO-3430-02A1

Same as above except the WLAN module kit is the EU version.



Note:

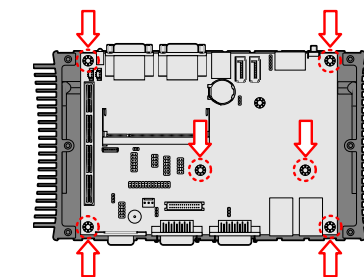
Please ensure that all items in the packing list are present before using this product. If any of the items are missing or damaged, contact your distributor or sales representative immediately.

1

Installing the EMIO-3430

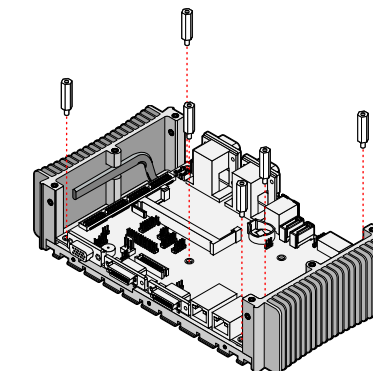
Step 1

Remove the six screws from the EITX-3000 as indicated in the picture.



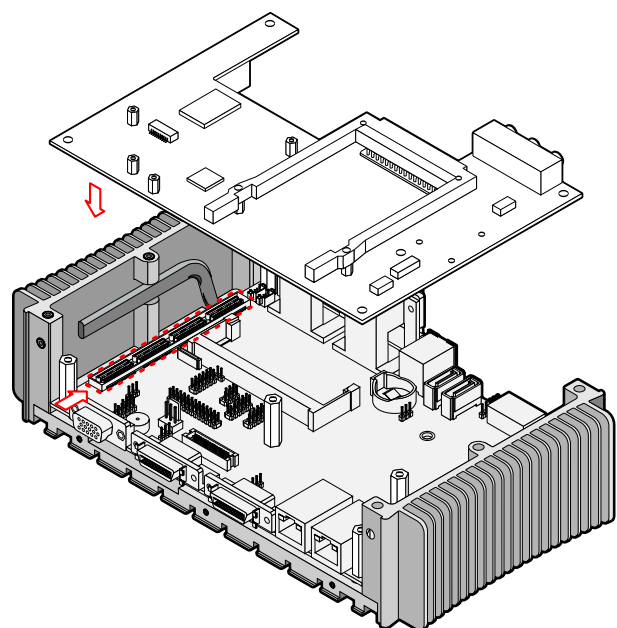
Step 2

Replace the screws with the six hex spacers.



Step 3

Align the Em-IO connector on the bottom side of the EMIO-3430 with the Em-IO connector on the EITX-3000.

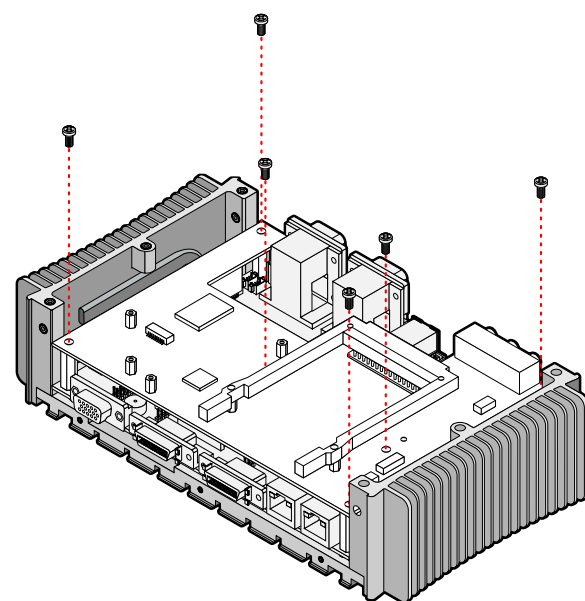


Step 4

Connect the module to the board and make sure that nothing obstructs the mounting holes on the top side of the hex spacers.

Step 5

Secure the module with the six screws from the EITX-3000.

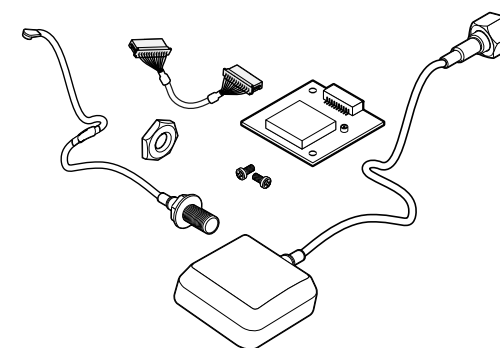


2

Installing the GPS module

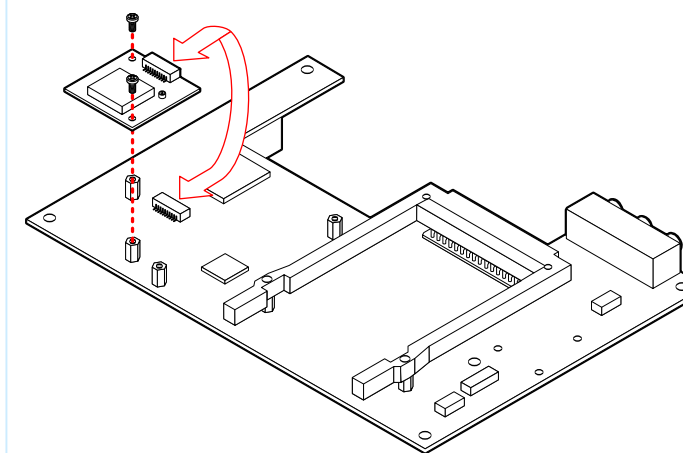
The GPS kit should include the GPS module, two screws, one board-to-board cable, one mini coaxial cable, one washer, one nut, and one external antenna.

The optional GPS module includes a Leadtek LR9102 20-channel GPS receiver.



Step 1

Align the mounting holes and secure the GPS module to the EMIO-3430.

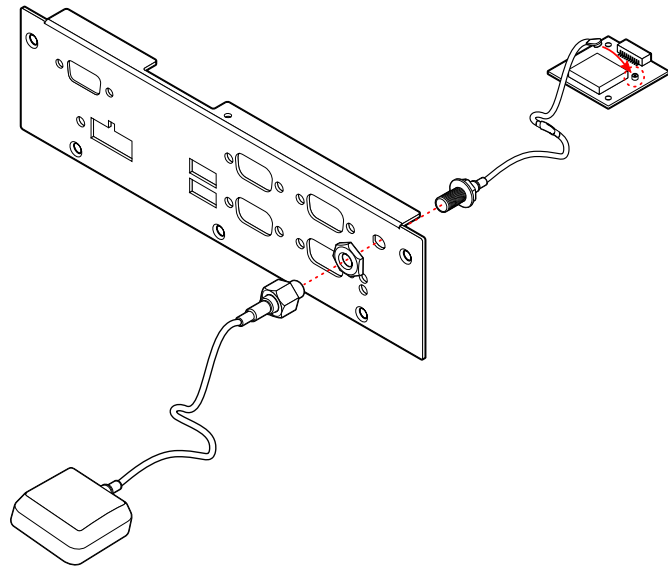


Step 2

Then insert the board-to-board cable with the contacts facing down, as shown in the picture.

Step 3

Attach the small end of the mini coaxial cable to the mini RF connector on the GPS module.



Step 4

Insert the large end of the mini coaxial cable into the front face plate. Secure it in place by inserting the washer and then locking the washer in place with the nut.

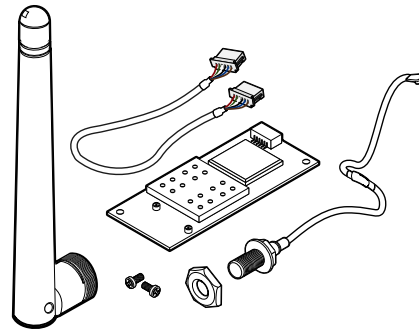
Step 5

The external antenna can be attached to the antenna connector on the faceplate.

3 Installing the WiFi module

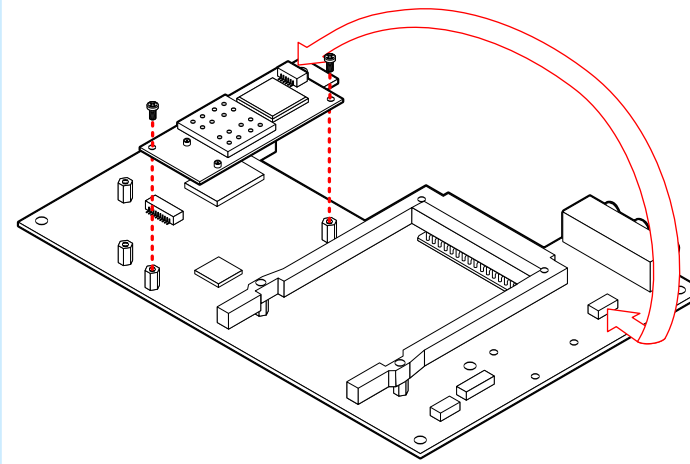
The WiFi kit should include the WiFi module, two screws, one board-to-board cable, one mini coaxial cable, one washer, one nut, and one external antenna.

The optional WLAN module includes a VT6656 WLAN controller and provides support for 802.11 b/g standards.



Step 1

Align the mounting holes and secure the module to the EMIO-3430.

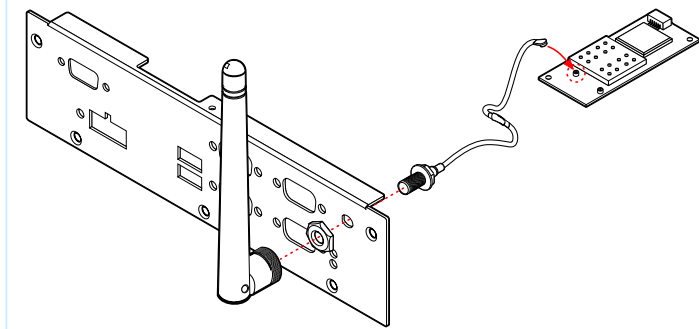


Step 2

Then insert the board-to-board cable with the contacts facing down into the connectors as shown in the picture.

Step 3

Connect the mini coaxial cable to the mini RF connector.



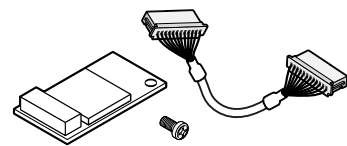
Step 4

The external antenna can be attached to the antenna connector on the faceplate.

4 Installing the Bluetooth module

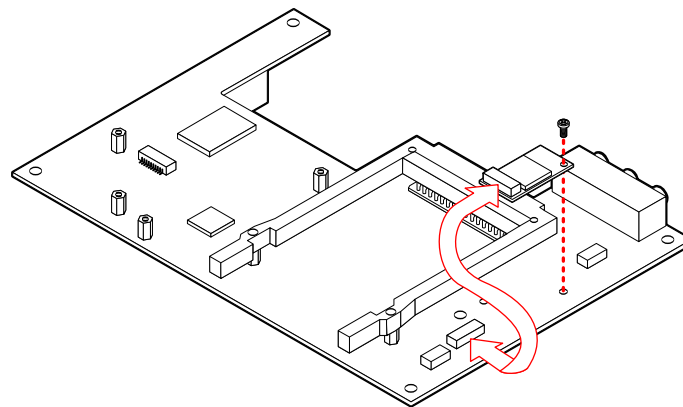
The Bluetooth kit should include the Bluetooth module, one screw, and one board-to-board cable.

The optional Bluetooth module includes a printed antenna and uses the Qcom QBT400UB 01P Bluetooth controller. The Bluetooth module is classified as a Class 2 device with an effective range of 10 meters. It supports multi-point operation and a full 7-slave piconet.



Step 1

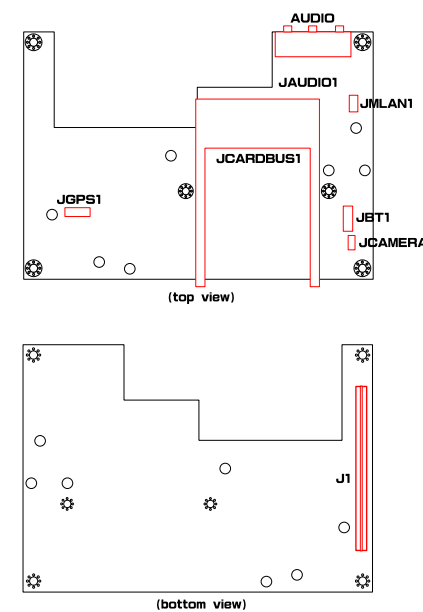
Connect the board-to-board cable from the module to the EMIO-3430. Ensure that the contacts on the cable are facing down before inserting.



Step 2

Align the mounting holes and secure the Bluetooth module to the EMIO-3430.

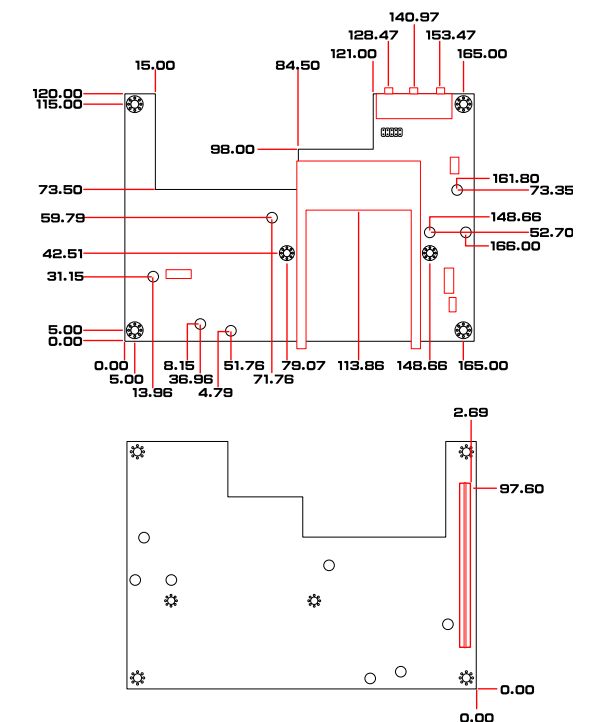
Layout



Pinouts

JAUDIO1				JWLESS-LED1	
Pin	Signal	Pin	Signal	Pin	Signal
1	LINE_OUT_R	2	LINE_OUT_L	1	W_LESS_LED
3	LINE_IN_R	4	LINE_IN_L	2	GND
5	MIC_R_R	6	MIC_R_L	JBT-LED1	
7	KEY	8	NC	Pin	Signal
9	AGND	10	AGND	1	BT_LED
				2	GND

Dimensions



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/en/products/mainboards/contact.jsp

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