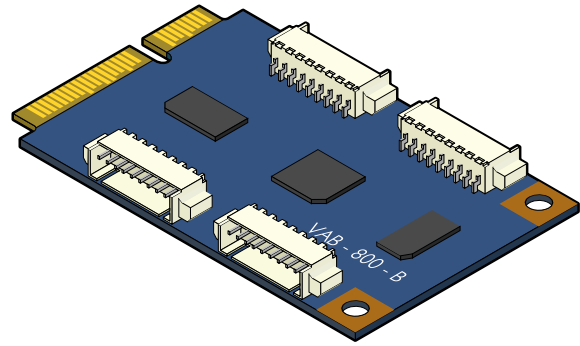


# VAB-600-B

Module for VAB-600 Pico-ITX mainboard

## Quick Guide



### Key Features:

- Install using Mini Card interface
- Support four COM connectors
- Quick installation and easy setup

The VAB-600-B is a USB connectivity module equipped with four 9-pins COM connectors, and it is specially designed to provide additional COM ports to VAB-600-B Pico-ITX mainboard. Each COM connector is used to attach COM cable ports (male DE-9 connector) that supports RS-232 standard. The VAB-600-B module can be installed to VAB-600 mainboard through onboard mini-card slot.

### Specifications:

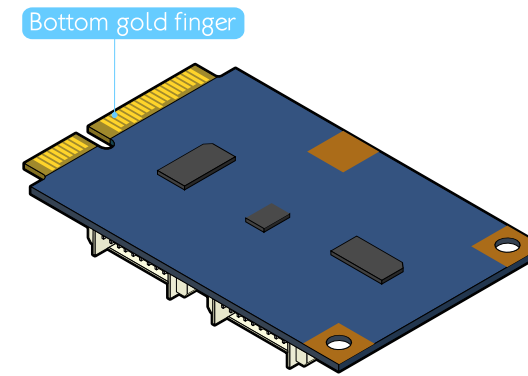
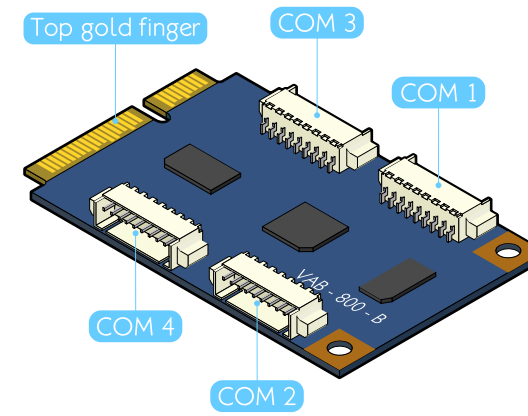
- **PCB Size:**
  - 50.95 mm x 30 mm x 1 mm (L x W x H)
- **USB to COM Controller:**
  - EXAR XR21V1414 4-Ch Full-Speed USB UART
  - USB 2.0 compliant, Full-speed (12 Mbps)
  - Fully compliant with the USB 2.0 specification
- **Onboard I/O Connectors:**
  - 4 x COM connector

### Package Lists:

- 1 x VAB-600-B module

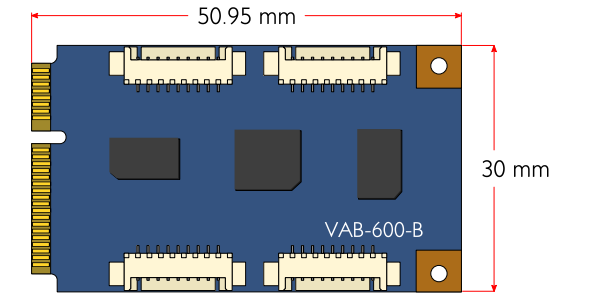
**Note:**  
Please ensure that all items in the packing list are present before using this product. If any of the items are missing or damaged, contact your distributor or sales representative immediately.

## Layout Diagram

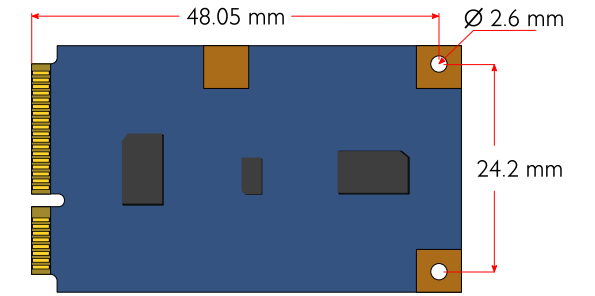


## Dimensions

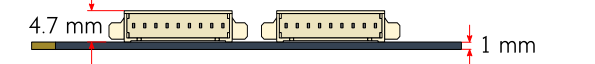
### Top View



### Bottom View



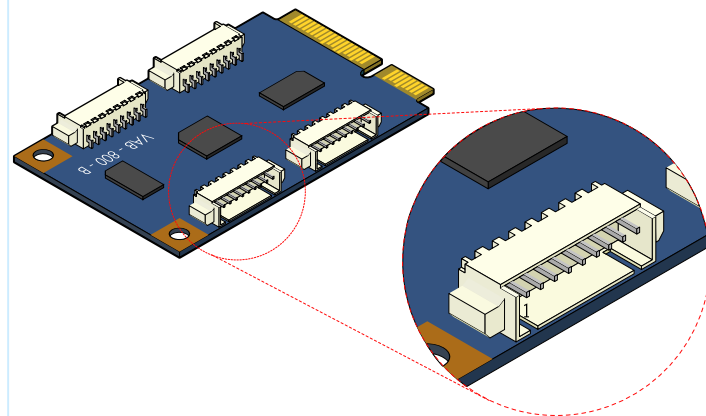
### Side View



# 1

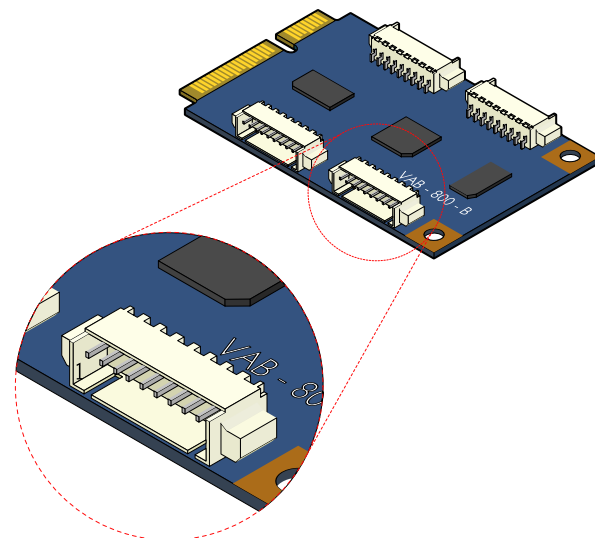
## COM Connector Pinouts

### COM 1 connector: CN1



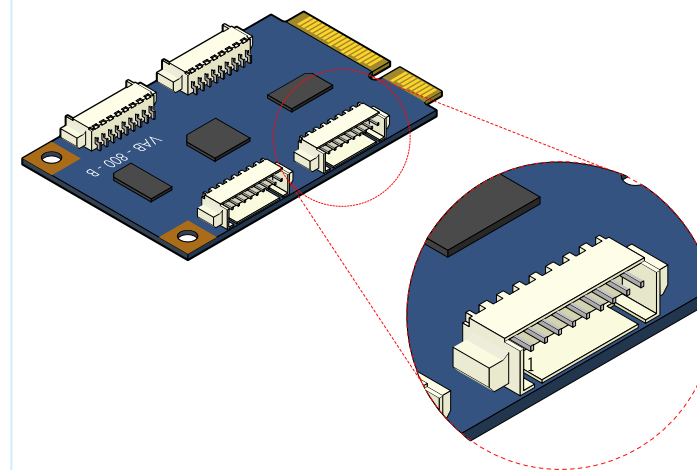
Pin	Signal	Pin	signal
1	DCD_1	6	DSR_1
2	RXD_1	7	RTS_1
3	TXD_1	8	CTS_1
4	DTR_1	9	RI_1
5	GND		

### COM 2 connector: CN2



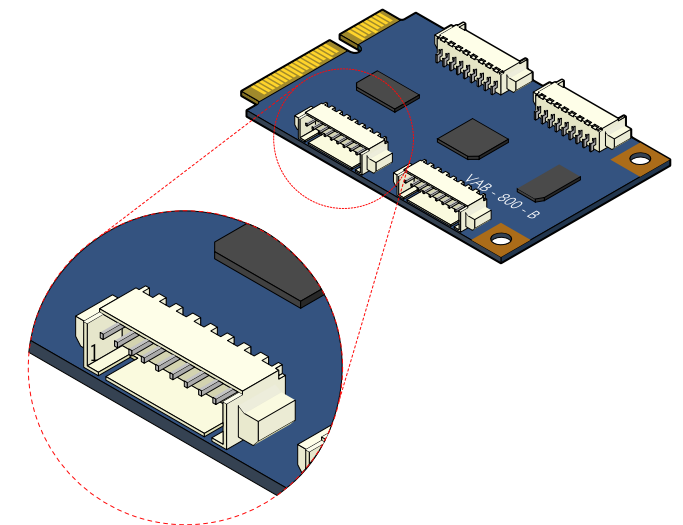
Pin	Signal	Pin	signal
1	DCD_2	6	DSR_2
2	RXD_2	7	RTS_2
3	TXD_2	8	CTS_2
4	DTR_2	9	RI_2
5	GND		

### COM 3 connector: CN3



Pin	Signal	Pin	signal
1	DCD_3	6	DSR_3
2	RXD_3	7	RTS_3
3	TXD_3	8	CTS_3
4	DTR_3	9	RI_3
5	GND		

### COM 4 Connector: CN4

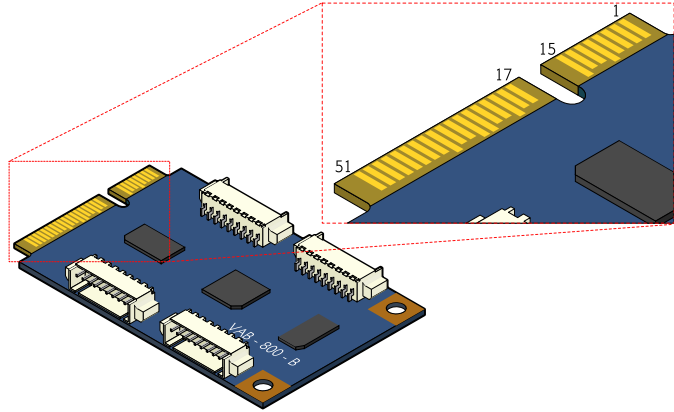


Pin	Signal	Pin	signal
1	DCD_4	6	DSR_4
2	RXD_4	7	RTS_4
3	TXD_4	8	CTS_4
4	DTR_4	9	RI_4
5	GND		

# 2

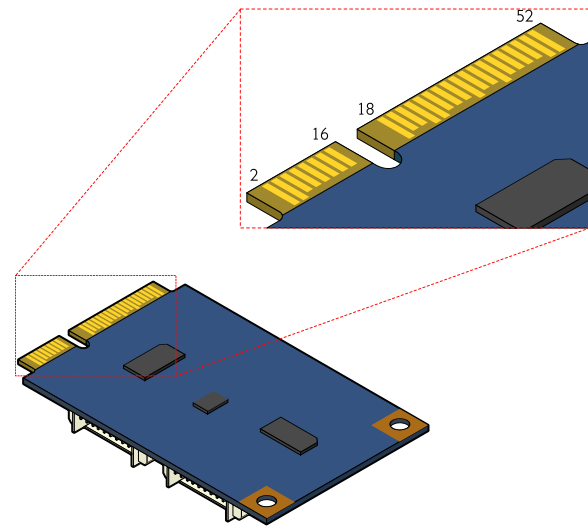
## Golden Finger Pinouts

### Top Golden Finger: J1



Pin	Signal	Pin	Signal	Pin	Signal
1	-	19	-	37	GND
3	-	21	GND	39	VSUS33
5	-	23	-	41	VSUS33
7	CLKREQ-	25	-	43	GND
9	GND	27	GND	45	-
11	-	29	GND	47	-
13	-	31	-	49	-
15	GND	33	-	51	-
17	-	35	GND		

### Bottom Golden Finger: J1



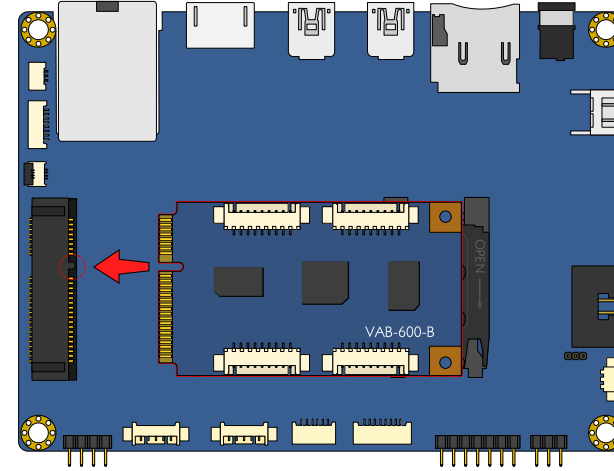
Pin	Signal	Pin	Signal	Pin	Signal
2	VSUS33	20	-W_DISABLE_1	38	USBHD_0+
4	GND	22	PEX1_RST	40	GND
6	-	24	VSUS33	42	LED_WWAN-
8	-	26	GND	44	LED_WLAN-
10	-	28	-	46	LED_WPAN-
12	-	30	I2C0SCL	48	-
14	-	32	I2C0SDA	50	GND
16	-	34	GND	52	VSUS33
18	GND	36	USBHD_0-		

# 3

## Installing VAB-600-B to VAB-600 mainboard

### Step 1

To connect the VAB-600-B module to VAB-600 mainboard, align the notch of module with the notch on Mini-card slot. Then gently insert the module into the mini-card slot at a 20 degrees angle.

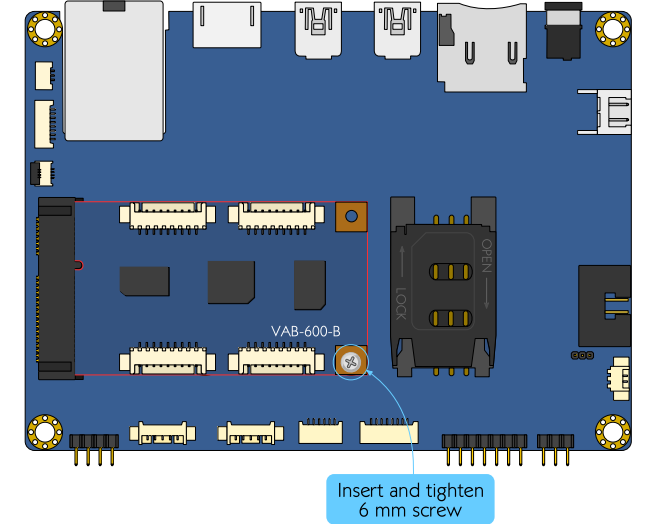


### Step 2

Once the module has been fully inserted, push down the rear side of the module until the screw hole is aligned and seated on the standoff mounting hole of the mainboard.

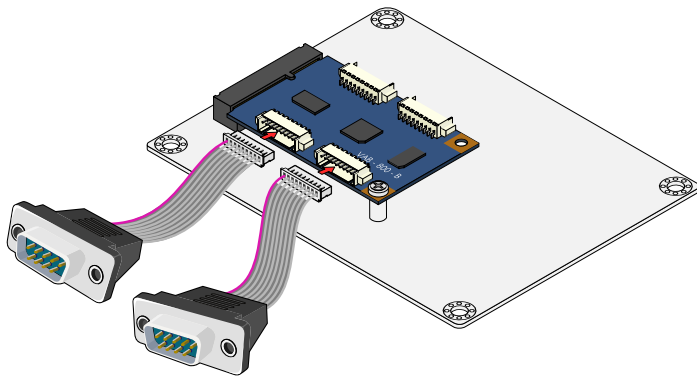
### Step 3

Secure the module with a 6mm screw to the standoff.



### Step 4

Gently connect the COM cable ports to the COM onboard connector.



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