

PCM-2610B

PCM-2612B

4-Ports Non-Isolated RS-232 mPCIe, DB37

4-Ports Non-Isolated RS-422/485 mPCIe, DB37

Startup Manual

Packing List

Before installation, please make sure that you have:

1. mPCIe card with controller x 1
2. Wired cable x 1
3. DB37 to DB9(4 ports) cable x 1
4. Startup manual x 1
5. Warranty card x 1
6. DB37 IO plate with bracket x 1

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Documentation/Software Support Guide

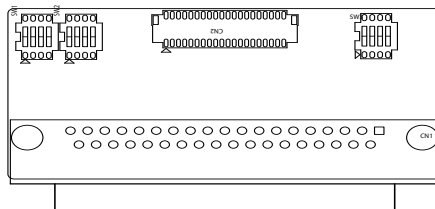
The driver can be downloaded from the product website.

* Supports Windows XP/7/8/10, and Linux

Jumper Settings

You can set the terminator resistor via jumper setting if necessary to match impedance.

PCM-2612B Jumper switch setting as below.



Master/Slave Settings

COM Port	Switch	Pin	Setting	Description
COM 1	SW1	1	ON	RS-422 Master
			OFF	RS-485/RS-422 Slave (Default)
2		ON	RS-422 Master	
		OFF	RS-485/RS-422 Slave (Default)	
3		ON	RS-422 Master	
		OFF	RS-485/RS-422 Slave (Default)	
4		ON	RS-422 Master	
		OFF	RS-485/RS-422 Slave (Default)	

For more information on this and other Advantech products, please visit our website at

<http://www.advantech.com>

<http://www.advantech.com/eAutomation>

For technical support and service:

<http://www.advantech.com.tw/eservice>

This manual is for PCM-2610B-AE/PCM-2612B-AE.

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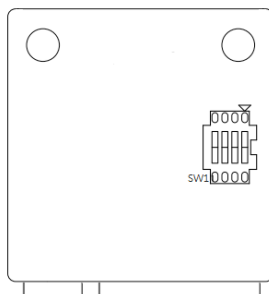
Jumper Settings (Cont.)

Terminal Resistor Settings

COM Port	Switch	Pin	Setting	RS-422 Description	RS-485 Description
COM 1	SW2	1	ON	120 Ohm between Tx+/Tx-	120 Ohm between Data+/Data-
			OFF	Open (Default)	
		2	ON	120 Ohm between Rx+/Rx-	Invalid
			OFF	Open (Default)	
COM 2		3	ON	120 Ohm between Tx+/Tx-	120 Ohm between Data+/Data-
			OFF	Open (Default)	
		4	ON	120 Ohm between Rx+/Rx-	Invalid
			OFF	Open (Default)	
COM 3	SW3	1	ON	120 Ohm between Tx+/Tx-	120 Ohm between Data+/Data-
			OFF	Open (Default)	
		2	ON	120 Ohm between Rx+/Rx-	Invalid
			OFF	Open (Default)	
COM 4		3	ON	120 Ohm between Tx+/Tx-	120 Ohm between Data+/Data-
			OFF	Open (Default)	
		4	ON	120 Ohm between Rx+/Rx-	Invalid
			OFF	Open (Default)	

Board ID Setting

The comm. cards feature a built-in DIP switch for defining the card's board ID. When multiple cards are installed, the board ID switch is useful for identifying the device number of each card.



Board ID Setting

SW	Position 3	Position 2	Position 1	Position 0
BoardID	BID3	BID2	BID1	BID0
0	ON	ON	ON	ON
1	ON	ON	ON	OFF
2	ON	ON	OFF	ON
3	ON	ON	OFF	OFF
4	ON	OFF	ON	ON
5	ON	OFF	ON	OFF
6	ON	OFF	OFF	ON

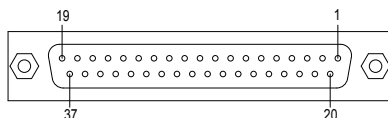
Jumper Settings (Cont.)

7	ON	OFF	OFF	OFF
8	OFF	ON	ON	ON
9	OFF	ON	ON	OFF
10	OFF	ON	OFF	ON
11	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON
13	OFF	OFF	ON	OFF
14	OFF	OFF	OFF	ON
15	OFF	OFF	OFF	OFF

PIN Assignment

The following tables and figures show the pin assignments of 1 connector on the bracket to the modular card. if you see two ports or above, it will use the same pin-definition of this one.

PCM-2610B Female DB37 on bracket				PCM-2612B Female DB37 on bracket					
PIN	RS-232	PIN	RS-232	PIN	RS-422	RS-485	PIN	RS-422	RS-485
1	-	20	3_RI	1	-	-	20	-	-
2	3_DCD	21	3_DTR	2	3_TxD-	3_Data-	21	3_RxD-	-
3	3_GND	22	3_DSR	3	3_GND	3_GND	22	-	-
4	3_CTS	23	3_RTS	4	-	--	23	-	-
5	3_RxD	24	3_TxD	5	3_TxD+	3_Data+	24	3_RxD+	-
6	4_RI	25	4_DCD	6	-	-	25	4_TxD-	4_Data-
7	4_DTR	26	4_GND	7	4_RxD-	-	26	4_GND	4_GND
8	4_DSR	27	4_CTS	8	-	-	27	-	-
9	4_RTS	28	4_RxD	9	-	-	28	4_TxD+	4_Data+
10	4_TxD	29	2_RI	10	4_RxD+	-	29	-	-
11	2_DCD	30	2_DTR	11	2_TxD-	2_Data-	30	2_RxD-	-
12	2_GND	31	2_DSR	12	2_GND	2_GND	31	-	-
13	2_CTS	32	2_RTS	13	-	-	32	-	-
14	2_RxD	33	2_TxD	14	2_TxD+	2_Data+	33	2_RxD+	-
15	1_RI	34	1_DCD	15	-	-	34	1_TxD-	1_Data-
16	1_DTR	35	1_GND	16	1_RxD-	-	35	1_GND	1_GND
17	1_DSR	36	1_CTS	17	-	-	36	-	-
18	1_RTS	37	1_RxD	18	-	-	37	1_TxD+	1_Data+
19	1_TxD			19	1_RxD+	-			



Installation

PCM Module with iDoor technology supports following iAutomation Computing Platforms:

Standard Mount UNO-2000

DIN-Rail Mount UNO-1000

Wall Mount UNO-3000

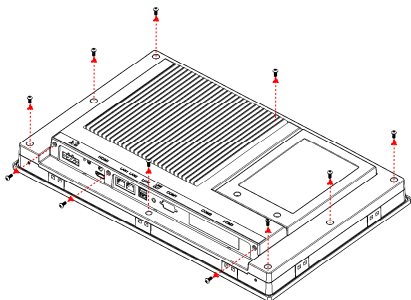
4:3 Panel Mount TPC-xx51T/xx82, TPC-2000/5000

16:9 Panel Mount TPC-xx51WP/xx81WP, TPC-2000/5000

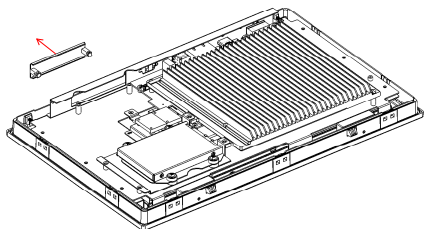
See the following page for installation in TPC Embedded Panel Computers and UNO Embedded Computers.

TPC Embedded Panel Computer Installation

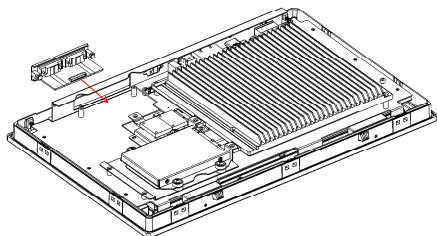
1. Remove the screws from the backplate and lift it off.



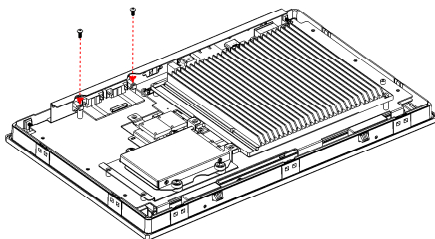
2. Unscrew to remove the blank expansion plate.



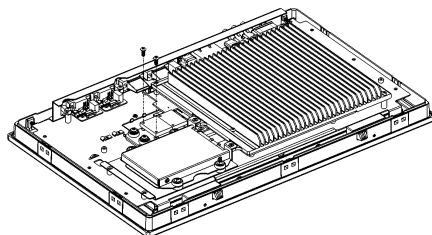
3. Insert the PCM Module through the blanking plate slot.



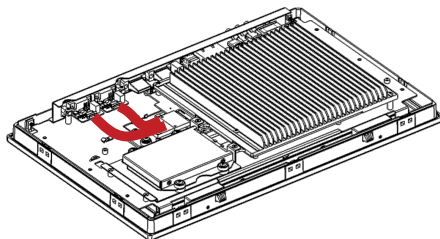
4. Insert the PCM IO plate through the blank plate hole and lock the screws.



5. Insert the mPCIe card and lock the screws

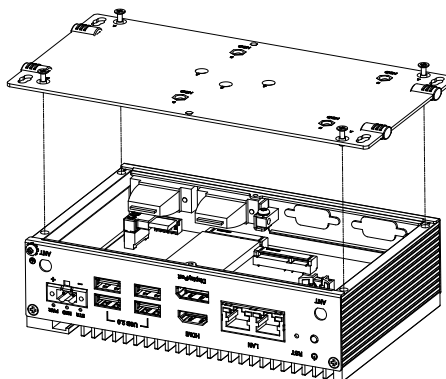


6. Connect IO plate to mPCIe card with the FFC cables.

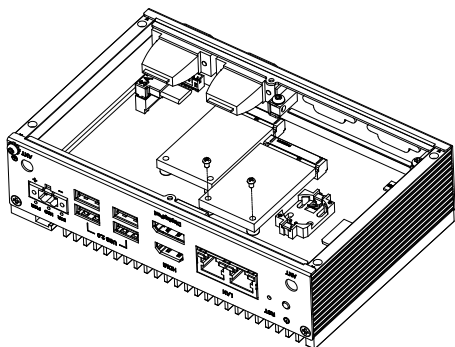


UNO Embedded Computer Installation

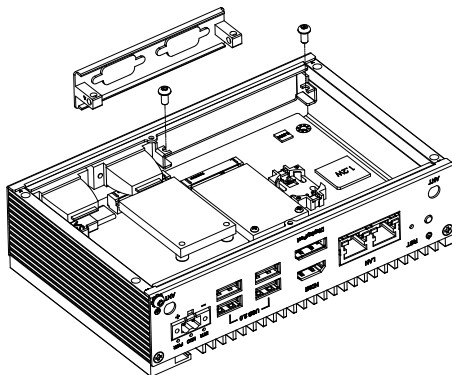
1. Remove the screws from the base plate and lift to remove.



2. Insert the mPCIe card and lock the screws.



3. Unscrew to remove the blank expansion plate.



4. Insert the PCM IO plate through the blank plate hole and lock the screws. Connect IO plate to mPCIe card with the FFC cables.

