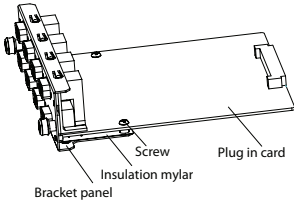


ECU-P1618D/1628D

8-port RS-232/422/485 with and without port-to-port Isolation for UNO-4673A/4683 and ECU-4784

Packing List

Before installation, make sure that you have the ECU-P1618D/1628D suit which includes the card and panel as below.



If anything is missing or damaged, contact your distributor or sales representative immediately.

Overview

ECU-P1618D/1628D are 8 serial ports cards, with the following specifications::

- 8-port RS-232/422/485
- Automatic RS-485 data flow control
- 2,000 V_{DC} Isolation Protection (ECU-P1628D)
- IRQ: All use the same IRQ assigned by PCI Bus
- Data bits: 5, 6, 7, 8
- Stop bits: 1, 1.5, 2
- Parity: None, Even, Odd
- Baud-rate (bps):
 - RS-232: 50~115.2 k
 - RS-422/485: 50~921.6 k
- Transmission Distance: 1000 m (RS-422/485)
- Data Signals:
 - RS-232: DCD,RxD,TxD,DTR,GND,DSR,RTS,CTS,RI
 - RS-485: Data+, Data-, GND
 - RS-422: Tx+, Tx-, Rx+, Rx-, GND

Notes

For more information on this and other Advantech

products, please visit our websites at:

<http://www.advantech.com>

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

For technical support and service:

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

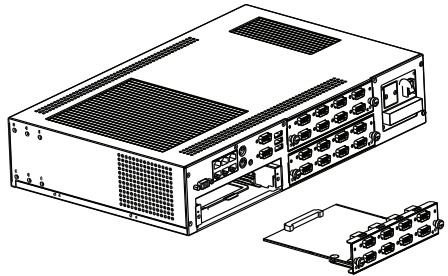
This manual is for ECU-P1618D/1628D

Part No: 2003SP0500

1st Edition

April 2016

Diagram



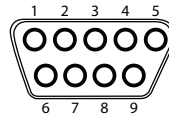
Installation

The ECU-P1618D/1628D are expansion cards for the UNO-4673A/4683 and ECU-4784 which has 3 expansion slots, the ECU-P1618D/1628D can be plugged into any of the 3 slots in the UNO-4673A/4683 and ECU-4784. Follow these steps to integrate into the UNO-4673A/4683 and ECU-4784:

- Select one of the slots: unscrew the two screws on the blank panel of the slot then remove the blanking plate.
- Plug the ECU-P1618D/1628D into the selected slot of the UNO-4673A/4683 and ECU-4784 carefully and fix it by the two screws on the panel.

Pin Assignment

ECU-P1618D/1628D serial ports COM1~COM8



Pin	RS-232	RS-422	RS-485
1	DCD	TX-	Data-
2	RxD	TX+	Data+
3	TxD	RX+	
4	DTR	RX-	
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		
9	RI		

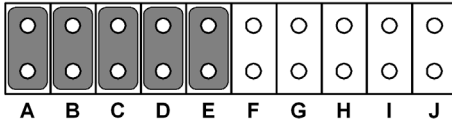
COM Port Configuration

Please follow the below description to set the COM ports, please also refer to the UNO-4673A/4683's user manual for detailed function description:

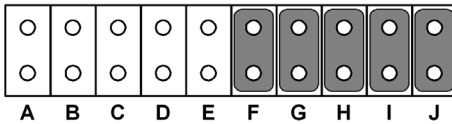
1. Selection of RS-232 or RS-422/485

COM Port	Jumper	COM Port	Jumper
COM1	CN3	COM5	CN7
COM2	CN4	COM6	CN8
COM3	CN5	COM7	CN9
COM4	CN6	COM8	CN10

RS-232 Jumper Setting (Default)



RS-422/485 Jumper Setting



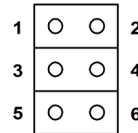
2. Switch the RS-485 auto-flow control or RS-422 Master/Slave mode (SW1)

COM Port	DIP of SW1
COM1	DIP1
COM2	DIP2
COM3	DIP3
COM4	DIP4
COM5	DIP5
COM6	DIP6
COM7	DIP7
COM8	DIP8

SW1 Status	Description
0	RS-422: Master mode RS-485: N/A
1 (Default)	RS-422: Slave mode RS-485: Auto flow control

3. Setting the Terminal Resistor

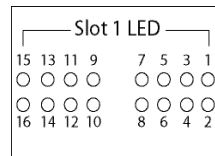
COM Port	Jumper	COM Port	Jumper
COM1	JP1	COM5	JP5
COM2	JP2	COM6	JP6
COM3	JP3	COM7	JP7
COM4	JP4	COM8	JP8



Short	Description
1-3	Add 120 Ohm terminal resistor on Tx+/Tx- of RS-422 or Data+/Data- of RS-485
3-5	Add 300 Ohm terminal resistor on Tx+/Tx- of RS-422 or Data+/Data- of RS-485
2-4	Add 120 Ohm terminal resistor on Rx+/Rx- of RS-422
4-6	Add 300 Ohm terminal resistor on Rx+/Rx- of RS-422

LED Indicators

There are LED indicators on the front panel of UNO-4673A/4683 and ECU-4784 for indicating the system running status. You can know the COM status of ECU-P1618D/1628D by the consistent slot LED indicators.



LED No.	COM Status
1	COM1 Tx
2	COM1 Rx
3	COM2 Tx
4	COM2 Rx
5	COM3 Tx
6	COM3Rx
7	COM4 Tx
8	COM4 Rx
9	COM5 Tx
10	COM5 Rx
11	COM6 Tx
12	COM6 Rx
13	COM7 Tx
14	COM7 Rx
15	COM8 Tx
16	COM8 Rx