

# Dual Serial Option Card Installation

The Dual Serial Option Card (PN 197347) provides two additional serial ports to the 880 that can connect with either RS-232, RS-485 or RS-422. The Dual Serial Option Card attaches to the J8 connector on the 880 CPU board and appears as Serial Channel 1 (Chan 1) and Channel 2 (Chan 2) for 880 configuration.



**Note** An 880 must be running firmware version 4.00 or higher to use the Dual Serial Option Card.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at [www.ricelake.com](http://www.ricelake.com)  
Warranty information can be found on the website at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)

## Parts Breakdown

The option card kit contains the necessary items used for installation of the card.

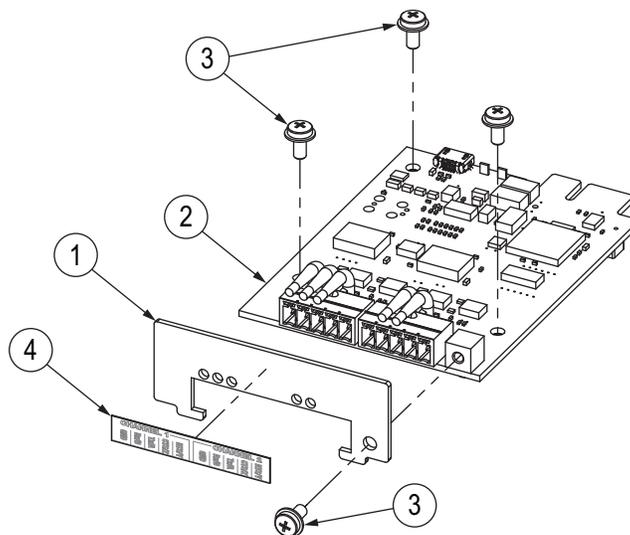


Figure 1. Serial Option Card Parts Breakdown

Item No.	Part No.	Description	Qty
1	200480	Faceplate, Dual Serial Option 880	1
2	162930	Board Assembly, X80 Dual Com	1
3	14822	Screw, Mach 4-40 NC x 1/4 Phillips with Internal Tooth Lock Washer SEMS	4
4	167194	Label, Serial Option	1
-	153882	Connector, 5 Position Screw Terminal	2

Table 1. Serial Option Card Parts List

## Installation Procedure

The indicator automatically recognizes all installed option cards when the unit is powered on. No hardware-specific configuration is required to identify an installed option card to the system.



**WARNING**

*Always disconnect power before opening an enclosure. Option card is not hot swappable.*



**CAUTION**

*A grounding wrist strap must be worn to protect components from electrostatic discharge (ESD) when working inside an enclosure or controller assembly.*

Use the following instructions to install and configure the serial option card.

1. Disconnect power to the indicator.



**Note**

*Disconnect the display cable on an 880 panel mount after disconnecting the power.*

2. Remove the backplate of the enclosure as instructed in the 880 technical manual.
3. Carefully align the J5 connector on the bottom of the option card board with the J8 connector on the 880 CPU board.
4. Press down on the option card board until it is seated on the 880 CPU board connector.
5. Use three of the screws provided in the option card kit to secure the option card board to the threaded standoffs on the 880 CPU board.
6. Use the remaining screw provided in the option card kit to secure the option card faceplate to the backplate of the 880 panel mount.



**Note**

*The provided faceplate is not needed when installing the option card inside of the 880 Universal enclosure.*

7. Route and connect necessary cable(s). See [Connection Pin Assignments](#) on page 3 for additional information.
8. Shield ground the cable(s) using the grounding stud on the enclosure



**Note**

*See the 880 technical manual (PN 158387) for additional information on shield grounding.*

9. Reassemble and then reconnect power to the indicator.
10. If needed, see the 880 technical manual (PN 158387) for additional information on Serial configuration.

## Connection Pin Assignments

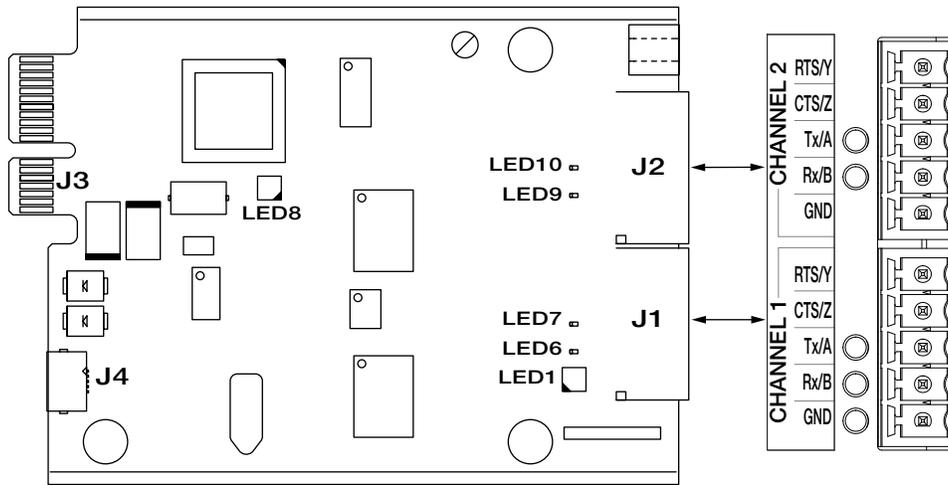


Figure 2. Serial Option Card Board

J1/J2 Pin	RS-232 Signal	RS-422/485 Signal
1	GND	GND
2	RX	B
3	TX	A
4	CTS	Z
5	RTS	Y

Table 2. Pin Assignments

## LED Status Indicators

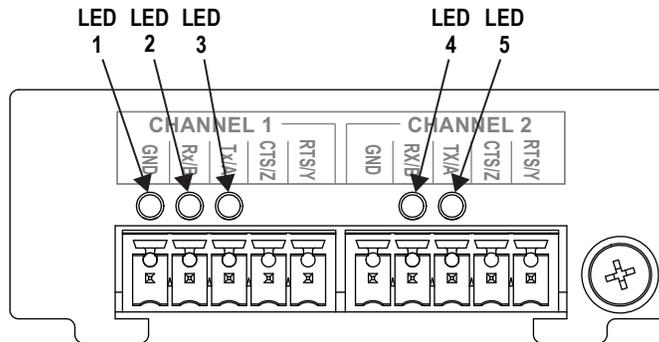


Figure 3. Serial Option Card Faceplate

LED	Status
1	Green flashing indicates the card is working; Red indicates the card is faulty
2	Green flashing when data is received on Channel 1
3	Green flashing when data is transmitted on Channel 1
4	Green flashing when data is received on Channel 2
5	Green flashing when data is transmitted on Channel 2

Table 3. LED Status Descriptions

## Specifications

Serial Ports	Channels 1 and 2 support RS-232, RS-422 or RS-485
Serial Type	Compatible with RS-232, RS-422 and RS-485
Baud Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Input Protection	Short circuit protection, 300W transient voltage suppression protection for ESD, EFT (600W transient voltage suppression), tertiary lightning, and system-generated transients per IEC 60001-4-2, 60001-4-4, and 60001-4-5; European Standards EN50082 and EN61000-4



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