CICP18ACCEIABD
EIA/RS-232 Module
Installation Instructions

GENERAL INFORMATION

The CICP18ACCEIABD Module adds fast EIA/RS-232 transmission speeds to the CICP18ACCBD Accelerator board (see installation instructions WI1593 for more information regarding the installation of the CICP18ACCBD Accelerator board).

Note: If desired, the CICP18ACCEIABD Module(s) can be installed into the Accelerator board *before* the Accelerator board is installed into the control panel motherboard. The following instructions detail the installation of the CICP18ACCEIABD Module(s) after the Accelerator board is installed into the control panel motherboard.

INSTALLATION

1. Prior to opening the EIA/RS-232 Module package or touching anything inside the control panel enclosure, discharge any static electricity from your body or clothing. Use a grounded wrist strap or touch an unpainted, grounded metal object such as the metal frame of the panel enclosure.

2. Before installation, verify that the panel and Accelerator board are both working correctly. Verify that both the OK lamp (LED) on the Accelerator board and the heartbeat lamp on the motherboard (location T1) blink in unison once per second. Verify the MEMORY BACKUP CELL jumper is in the IN position providing memory data retention (see Fig. 1).
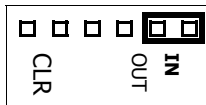
Fig. 1: "IN" Position.

3. Inside the panel housing, remove power from the main control panel PCB by pushing the POWER plug connector (located on the lower right of the PCB) downward until the connector is completely separated from the PCB. Do not disconnect the battery wires. See Fig. 2 below.
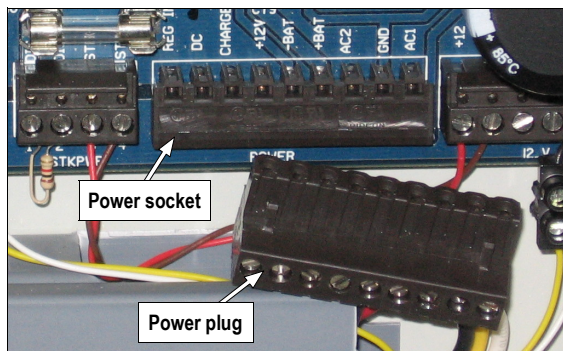
Fig. 2: Push POWER plug downward until removed.

4. **Align the board:** Use the image in Fig. 3 to find the EIA/RS-232 board mounting location (located near the top of the CICP18ACCBD Accelerator board). Carefully align the two EIA/RS-232 board snap-lock standoffs with the two Accelerator PC board mounting holes. Then align the EIA/RS-232 board plug with the Accelerator board receptacle (JP4) as shown in Fig. 3, below.
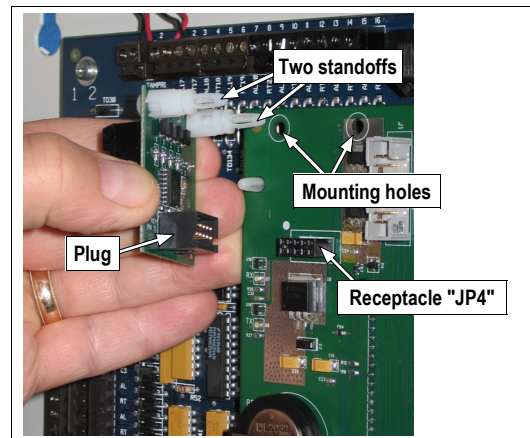
Fig. 3: Align the two snap-lock standoffs and plug with the Accelerator board holes and receptacle.

Insert the board: With both standoffs and the plug aligned, firmly press the EIA/RS-232 board into the Accelerator board by squeezing the EIA/RS-232 board terminal strip. Use your fingers to hold the accelerator board while using your thumb to squeeze the EIA/RS-232 board into the accelerator board (as shown in Fig. 4, below).
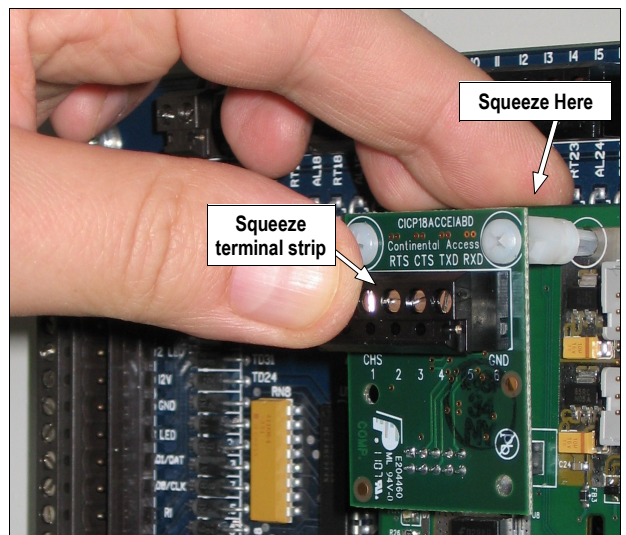
Fig. 4: Squeeze to insert the board.

5. Connect a 22 AWG (or heavier) wire to a grounding screw attached to the metal frame of the panel enclosure. Be sure this wire ground is firmly and securely attached to the metal frame. See Fig. 5.

Fig. 5: Connect ground wire to grounding screw.

6. Connect the other end of the ground wire to the EIA/RS-232 Module terminal strip marked "CHS 1" (circled below in Fig. 6). The letters "CHS" represent the "chassis" connection. **IMPORTANT:** *Use care when tightening the terminal screw--support the motherboard with your hand while exerting torque on the screw.*
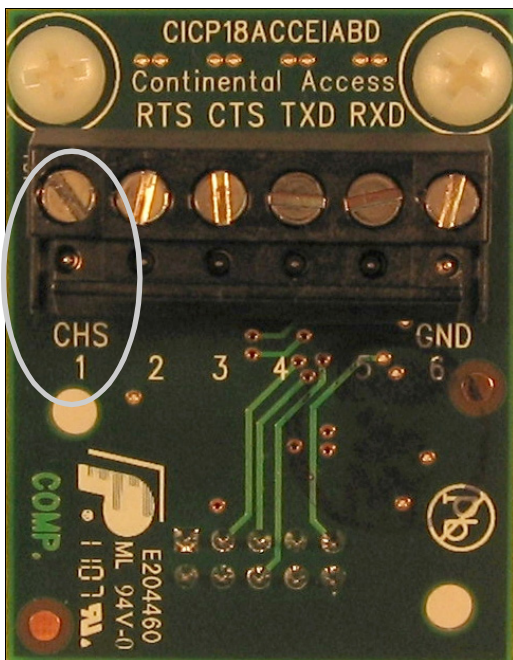

Fig. 6: Chassis ground terminal.

Note: The terminal "CHS 1" and "GND 6" are electronically equivalent, but we recommend using the "CHS 1" terminal for ground.

7. Make your additional connections to TX, RX and ground, as required. All terminals are clearly marked, as displayed in Fig. 6.

8. Re-connect power from the main control panel motherboard by pushing the POWER plug connector on the lower right of the PCB upward into the PCB. Verify that the OK lamp (LED) on the Accelerator board blinks on and off once per second. Also verify the heartbeat lamp on the motherboard (location T1) blinks in unison with the OK lamp on the Accelerator board.

Note: Be sure the MEMORY BACKUP CELL jumper is in the IN position to provide memory data retention. See Fig. 7.
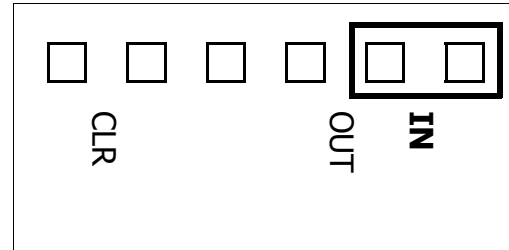

Fig. 7: "IN" Position.

MAXIMUM RECOMMENDED CABLE LENGTH :

EIA/RS-232

Baud Rate	Practical EIA/RS-232 Distance Limits
921.6KBaud	10 Feet
460.8KBaud	20 Feet
230.4KBaud	40 Feet
115.2KBaud	80 Feet

EIA/RS-422

Baud Rate	Practical EIA/RS-422 Distance Limits (Between Panels)
460.8KBaud	1000 Feet
230.4KBaud	2000 Feet
115.2KBaud	4000 Feet

Ethernet

Speed	Limits defined by IEEE802.3 for CAT5/6 Copper Cable (to Switch or Router)
10/100Base-T	100 Meters (305 Feet)