700-Series OSDP Adapter Board

Hardware Installation, Wiring, and Reader Setup

❖ Compatible with the 635-DRM Board

SG 11.8.X (or higher)

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OVERVIEW OF THE 700 OSDP ADAPTER BOARD

The 700 OSDP Adapter Board is compatible with the 635 DRM (Dual Reader Module). When the 700 OSDP Adapter is attached, both sections of the DRM Board are designated to support OSDP Readers. If you have non-OSDP readers, they must be connected to a separate DRM.

- 700 OSDP Adapter Board is pre-flashed from the factory (ready to install; no addressing needed).
- 700 OSDP Adapter Board supports 2 OSDP Readers when attached to a 635-DRM board.
- 700 OSDP Adapter Board is compatible with the 635-DRM Board.
- OSDP Reader data is converted to Wiegand data.
- In System Galaxy Reader Properties, the Reader Type field should be set to Wiegand format.

700 OSDP ADAPTER BOARD – COMPONENT LAYOUT

SW1 – Reset Switch

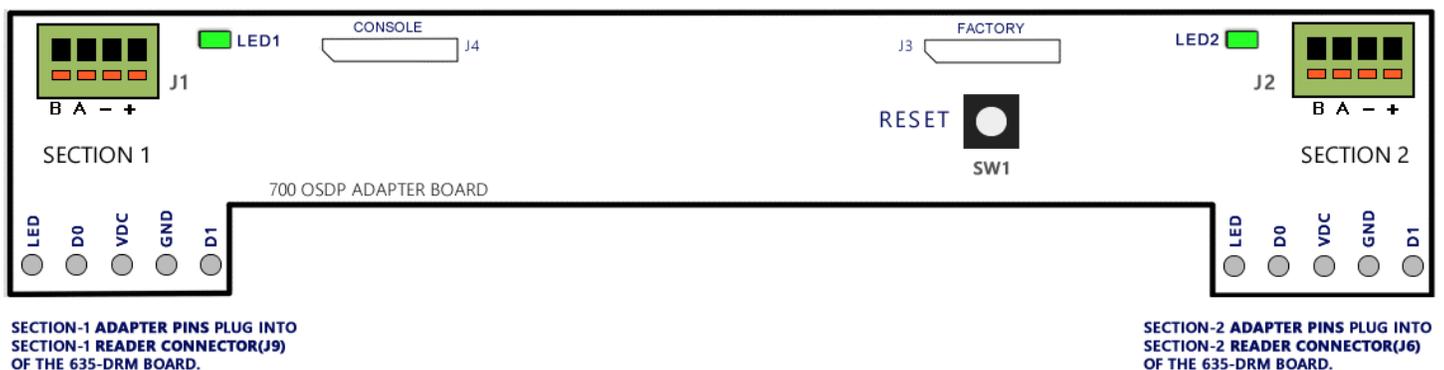J1 – RS-485 / OSDP Reader Connector (4-pin; RS-485 2-wire protocol) for Section-1 reader port.

J2 – RS-485 / OSDP Reader Connector (4-pin; RS-485 2-wire protocol) for Section-2 reader port.

J3/J4 – Factory and Console programming ports, respectively. (6-pin; factory use only).

J5/J6 – 5-Pin Reader Connector header pins for connecting/mounting Adapter to the DRM Reader ports.

LED Indicator for Section-1/Reader-1 (Blinking Green = communication; Solid/ON = power but no communication).

LED Indicator for Section-2/Reader-2 (Blinking Green = communication; Solid/ON = power but no communication).

INSTALLING 700 OSDP ADAPTER BOARD

The 700 OSDP Adapter Board must be attached to a 635-DRM (Dual Reader Module) at the 5-pin connector pins on the adapter board. Then the OSDP Reader can be wired to the Adapter board. The Galaxy Controller will convert the OSDP Reader data to Wiegand data.

NOTICE: In the System Galaxy Reader Properties, the OSDP Reader Type will be configured as Wiegand.

REQUIREMENT

- The 635 Controller must already be installed and flashed/programmed, up and running and connected to System Galaxy Event Server.
- The 635-DRM Board must already be installed, addressed, flashed and actively communicating. You should be able to see the DRM Board in the System Galaxy Controller Programming screen.
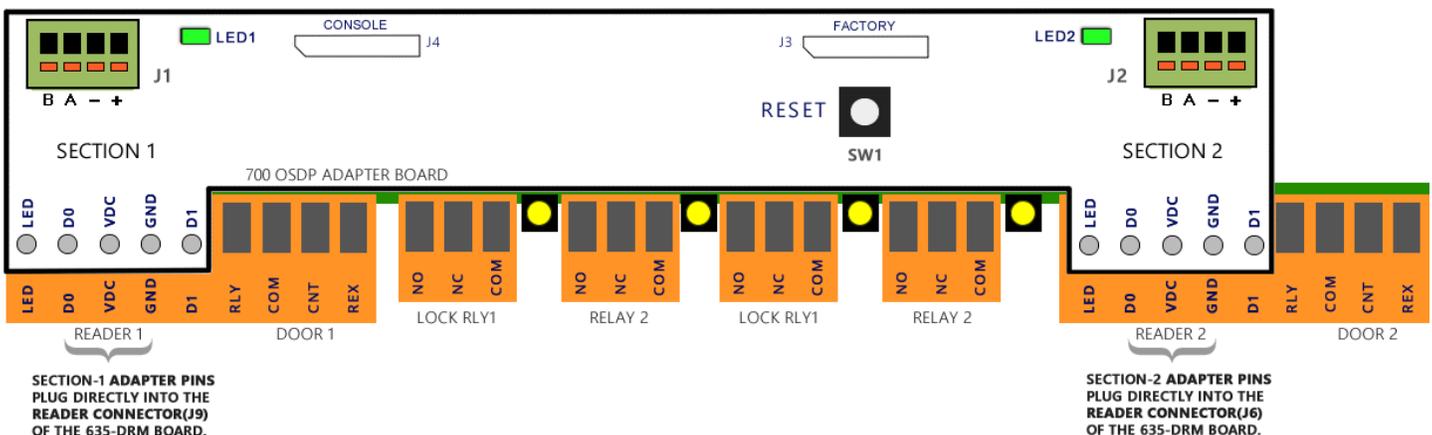
NEW INSTALL STEPS

1. Install the 635-DRM Board into the Controller Cabinet if it is not already installed.
2. Remove both orange Reader connectors from the 635-DRM Board (J9 and J6).
3. Loosen their contact screws for the positions labeled LED, D0, VDC, GND, and D1.
4. Attach both orange connectors onto the 5-pins of the 700-OSDP Adapter Board. Make sure you correctly align the contact positions – LED to LED; D0 to D0; VDC to VDC; GND to GND; D1 to D1.

   IMPORTANT: Make sure the 5 Pins are fully seated into the orange connectors of the DRM Board.

5. Tighten all 5 contact screws for LED, D0, VDC, GND, and D1 on both reader connectors.
6. Once the 700 Adapter is correctly attached to the orange Reader connectors, then you can plug the orange connectors into the DRM Board. This attaches the 700 Adapter Board to the DRM.
   - Adapter Board Section-1 should be plugged into Section-1 of the DRM Board (J9)
   - Adapter Board Section-2 should be plugged into Section-2 of the DRM Board (J6)

   IMPORTANT: Make sure the orange connectors are fully seated in the DRM Board.

CONFIGURING THE HID OSDP READER

Configuring the HID OSDP Reader is done using the HID Reader Manager app.
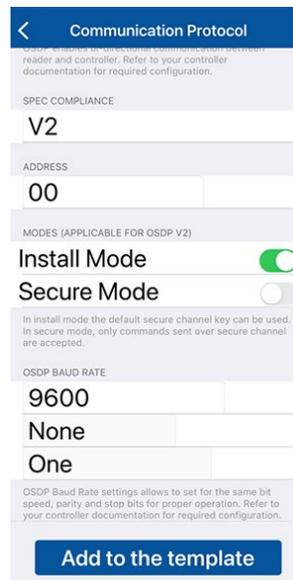
REQUIREMENTS:

- You must download the HID OSDP Reader Manager App (Mobile App) from Apple Store or Google Play.
- Create your user login credentials, as required.
- It is recommended that you preconfigure the HID OSPD Reader before you install it.

STEPS:

1. Launch the HID OSDP Reader Manager App and sign in as required.

2. Choose the [Scan for Readers] option.
   RESULT: A list of mobile-enabled/mobile-ready readers will appear on the app screen.

3. Select the correct reader from the reader list.

4. Choose the [Inspect] option.

5. Choose the [Detailed Config] option.

   NOTE: The mobile app may prompt you to power cycle your OSDP Reader. Follow the instructions displayed on the mobile app.

6. Choose the [Communication Protocol] option ...

   a. Enable (turn on) the OSDP option.

   b. Set Compliance to "V2"

   c. Set the Address = "00"

   d. Set the Mode to "Install" (unencrypted).

   e. Set Baud Rate to "9600"
      Parity = None
      Stop Bit = One

7. Select the [Add to Template] button on the app.

8. Select the [Apply Selected Items] button on the mobile app screen.

WIRING 700 OSDP READER

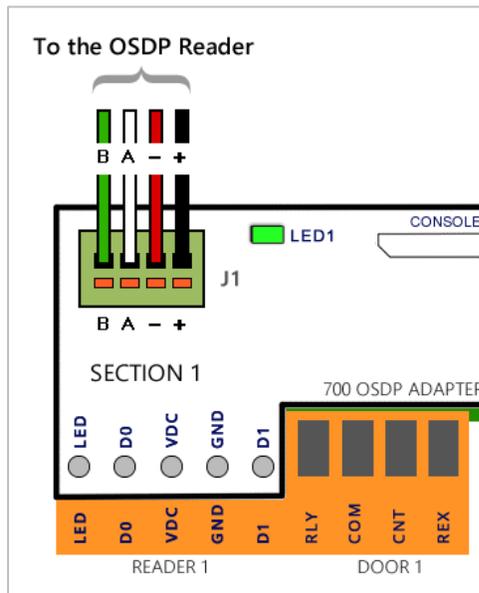The 700 OSDP Adapter Board supports 2 OSDP Readers connected to the RS485 Connectors at J1 and J2.

REQUIREMENTS:

- It is recommended that you preconfigure the HID OSPD Reader before you install it. See the previous section for configuration instructions.

STEPS:

700 RS-485 CONNECTOR	HID OSDP	
PIN-1 = 12vdc	Red	
PIN-2 = Ground	Black	
PIN-3 = A	White	
PIN-4 = B	Green	

1. Wire the **OSDP Reader** to the 700-Adapter Board at the RS485 Connector (J1 or J2).

2. On the 700 Adapter Board, the **Green LED** should be blinking when the reader is connected and has been correctly programmed. The Green LED is located beside the RS485 Connector (J1/J2).

3. You can present a **Valid Test Card** to the OSDP Reader to verify that the board is reading the card, and that the event logs to the Event Screen, and that the door unlocks, as appropriate.
Notice: The door will unlock based on *access privileges* assigned to the test card during enrollment.