# 635-ORM Installation QRG (Output Module)



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- 1.0 Install 635-DSI on the I2C Data Bus
- 2.0 Install 635-ORM (Output Module) on RS485 Section

## 1.0 Install a 635-DSI Board on the I2C Data Bus (ribbon cable)

This section describes installing a 635-DSI Board on the I2C Data Bus (ribbon cable) to support ORMs on RS485 Section.



**DO NOT INTERRUPT FLASHING.** Do not interrupt the power source, I2C Bus, or SW1 Reset on the CPU or DSI board during flashing process. Interrupting flash will damage board memory and require factory repair.

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- 1. System Galaxy Software SG 10.4 (or higher) required. All existing & new panels must be flashed to current flash.
- 2. 635-CPU supports the 635-DSI with 635-ORM Output Module on the RS485 Section (i.e. not support on a 600 CPU).
- 3. 635-ORM (Output Relay Module) has 8 Output Relays per board.
- 635-DSI Board supports up to 3 ORMs for General Purpose Output; up to 4000 ft. total line distance.
   635-DSI Board supports up to 15 ERMs for Elevator Relay Output; up to 4000 ft. total line distance.

NOTE: a 635-CPU supports up to 64 devices per CPU Board. Each 635-DSI Board counts as 1 (ORM boards are not counted).

- 5. SET THE DSI BOARD ID using dipswitch positions 4 thru 8. (factory default 16 = only position 4 ON )
  - a) Turn OFF/DOWN all Switch Positions 4 thru 8;
  - b) Then only turn ON/UP the DIP Switch positions that are needed to set the desired Board ID use table below.
     The Board ID must be unique on the I2C data bus (ribbon cable), and Valid IDs are 1 thru 16.

IADLI				DOAND NON	ibenoj
ID	Actual DIP S	witch Position	ID	Actual DIP	Switch Position
1	8	= ON	9	5, 8	= ON
2	7	= ON	10	5, 7	= ON
3	7, 8	= ON	11	5, 7, 8	= ON
4	6	= ON	12	5, 6	= ON
5	6, 8	= ON	13	5, 6, 8	= ON
6	6, 7	= ON	14	5, 6, 7	= ON
7	6, 7, 8	= ON	15	5, 6, 7, 8	= ON
8	5	= ON	16	4 = ON (fa	ctory default)

### TABLE FOR SETTING BINARY DIPSWITCH (BOARD NUMBERS)

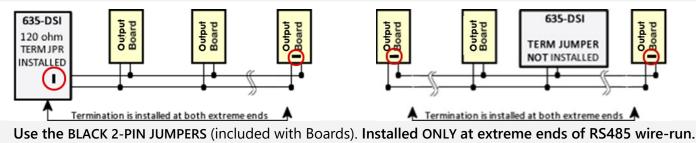
- OPTION-C (Switch pos. 3) is OFF (19200 bps).
- OPTION-B (Switch pos. 2) is unused.
- OPTION-A (Switch pos. 1) is unused
- 6. Correctly set the 120-ohm Termination Jumper on each RS485 Section (JP4/JP5) of the DSI Board. NOTE: Consider the RS485 Sections separately when setting the termination jumpers. The RS485 Sections function independently; thus, one section could be at the *end-of-line*, while the other section is not.

Diag. A. Jumper shown in the TERM position when DSI Board is located at the end of a RS485 wire-run.

**Diag. B. Jumper shown OPEN (NOT INSTALLED) on the DSI when the DSI is NOT at the end-of-line** (120  $\Omega$  jumpers is installed only on the Output Board when it is at the 'extreme end' of the line).

**Diagram A:** 120  $\Omega$  TERM JUMPER INSTALLED ON DSI.

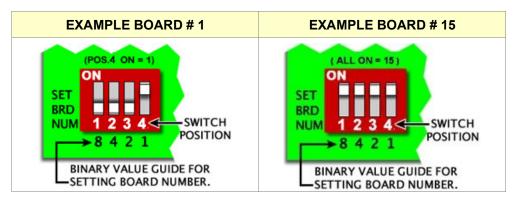
**Diagram B:** 120  $\Omega$  TERM JUMPER NOT INSTALLED ON DSI.



- 7. Install the DSI Board into the controller cabinet and connect to the I2C Bus (ribbon cable) and power harness. The DSI must be communicating on the I2C bus before connecting the ORMs. Verify DSI communication by entering the CPU's IP Address into a Web Browser\* to confirm the connection status of the DSI Board. (\*PC and CPU must be on same network segment. Board appears on *Panel Status page*. Board Status should = Normal. When using the Web Config Page diagnostics, you should uncheck/update the server 1 connection) Alternately, a DSI connection can be confirmed by retrieving/saving in the Controller Programming screen via the SG software. )
- 8. Before installing a 635-ORM Output Board, you must configure the SWITCHES and JUMPERS:

## a) BOARD DIPSWITCH SETTINGS:

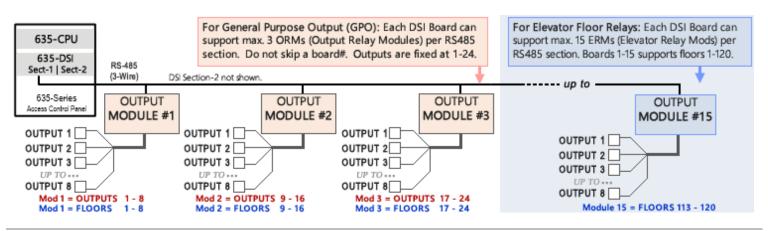
SET Board ID (positions 1 thru 4). Valid ID is 1 thru 15; each Board must have a unique ID on RS485 bus.



b) THE BINARY ID TABLE (BELOW) REFERENCES 'DIP-SWITCH POSITIONS' (not Binary Value markings).

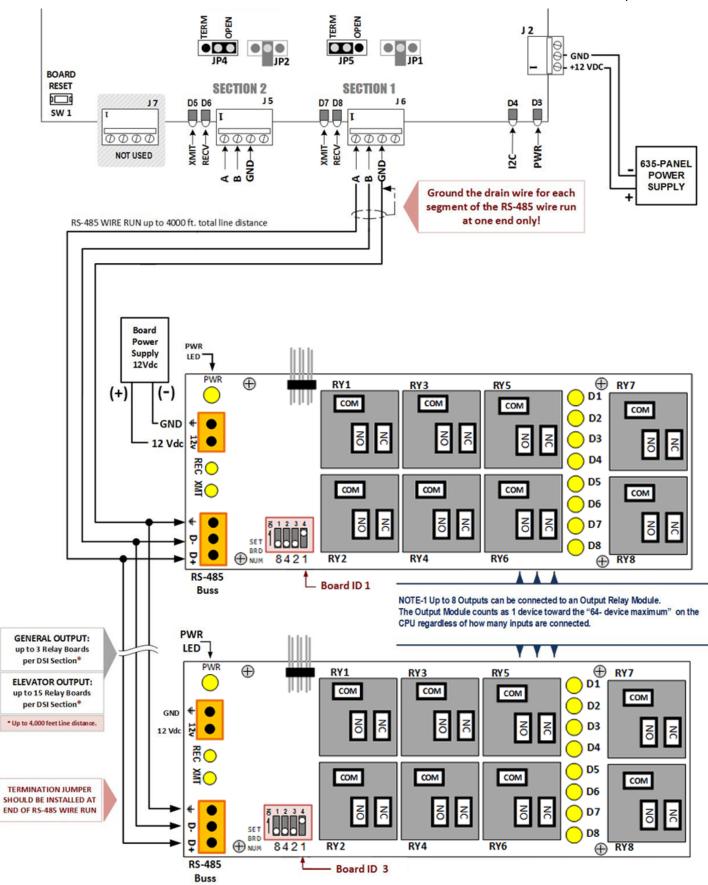
ORM ID	DIP-Switch	Position		ORM ID	DIP-Swite	ch Positi	on
1	4	= ON	Relay / Floor 1 - 8	9	1, 4	= ON	Relay / Floor 65 - 72
2	3	= ON	Relay / Floor 9 - 16	10	1, 3	= ON	Relay / Floor 73 - 80
3	3, 4	= ON	Relay / Floor 17 - 24	11	1, 3, 4	= ON	Relay / Floor 81 - 88
4	2	= ON	Relay / Floor 25 - 32	12	1, 2	= ON	Relay / Floor 89 - 96
5	2, 4	= ON	Relay / Floor 33 - 40	13	1, 2, 4	= ON	Relay / Floor 97 - 104
6	2, 3	= ON	Relay / Floor 41 - 48	14	1, 2, 3,	= ON	Relay / Floor 105 - 112
7	2, 3, 4	= ON	Relay / Floor 49 - 56	15	ALL ON	= 15	Relay / Floor 113 - 120
8	1	= ON	Relay / Floor 57 - 64				

## c) Diagram of the 635-DSI RS-485 Section-1: showing Output Relay Board IDs and Output/Floor Numbering.



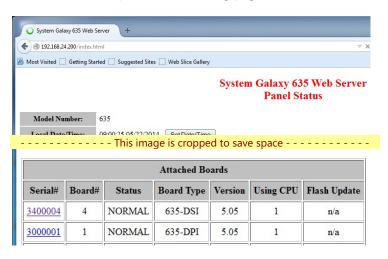
9. REMEMBER properly set the termination Jumper on the Output Board; INSTALL ONLY if board is at end of line

10. RS-485 NETWORK WIRING: Land 3-wire cable from DSI Board RS485 Section → 635-ORM Output Boards.



## 11. YOU CAN VIEW AND TEST OUTPUTS from the embedded web page as follows:

- a) Enter the **panel's IP Address** into a *web browser* to open the *Panel Status page* (the PC/browser must be able to reach the same network segment that the panel is in).
- b) In the 'Attached Boards' table, click on the Serial # of the DSI Board that is connected to the Output Relay Modules. RESULT: This will open the *DSI Testing page* (see below).



- c) In the DSI Test Screen (below), choose the Section# (one or two) that the Output Modules are connected to.
- d) In the [Function] list, choose the option that describes the use of the ORMs:
  - choose "Galaxy Relay Boards" for General Purpose Output (3 boards max)
  - choose "Galaxy Elevator Relays" for Elevator Relay Output (15 boards max, use the scrollbar to see all relays)
- e) Click the **[APPLY] button** to retrieve the list of connected Relay Modules. RESULT: the **Found column** will display "**yes**" for each ORM that is physically connected and powered on.
- f) Click (check) the 'Automatically Ripple Relays' option to test all the relays on every connected ORM. RESULT: Every connected board will run the *Relay Ripple Test*, and each of the 8 Relays will momentarily engage in sequence of 1 thru 8. Each relay has a corresponding LED that will momentarily light-up in sequence as the ripple test runs. The *Relay Ripple* will continue cycling ON and OFF until you uncheck the Ripple option.

## 600/635-DSI Configure and Test

Configuration Options	Selection Testing
Local Date/Time: 20:01:06 01/27/2023	Section Two 🗸
Serial Number: 3404132	Function Galaxy Relay Boards 🗸
Software Version: 11.0.9	Apply

DSI Section 2 set to drive Relay Boards
Automatically Ripple Relays

rBrd #	Found	R1	R2	R3	R4	R5	R6	<b>R</b> 7	<b>R</b> 8
1	yes	>	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$
2	no	<		$\Box$	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$
3	no	2	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$	$\Box$

#### 600/635-DSI Configure and Test

Configuration Options				Selection Testing
Local Date/Time:	18:15:10 01/27/2023		Section	Two 🗸
Serial Number:	3404132		Function	Galaxy Elevator Relays
Software Version:	11.0.9			Apply

DSI Section 2 set to drive Elevator Relay Boards Automatically Ripple Relays Pusher Timeout, use REFRESH or APPLY to resume Found R1 R2 R3 R4 R5 R6 R7 R8 rBrd #  $\checkmark$ 1 yes  $\checkmark$ 2 no **~** 3 no 4 no  $\checkmark$ 5 no  $\checkmark$ **~** 6 no 7 no ~ 8 no ~ 9 no ~  $\checkmark$ 10 no 

- 12. In the System Galaxy Software, you must program the Loop/Cluster, Controller, and DSI Board.
  - In the Controller Properties screen, click [Edit] then click [Get Board Info]. The attached boards will be retrieved and can be saved/added to the system programming for the controller.
  - > Set unused board sections to [Not in Use].
  - Remember to click **APPLY** to save settings.

**NOTE:** The CPU must be configured with a valid IP Address, powered ON, and connected to the LAN. All daughter boards must be addressed, connected to the I2C ribbon cable, and powered ON. The GCS Services must be running, and the CPUs must be connected to the Event Service.

er/Loop:	K	evins Office 6ix	<ul> <li>Add1</li> </ul>	New
oller ID:	3	Order by ID      Order by N	ame Ed	E . 🔺
e:	0	kuster #: 1, Unit #: 3	- Dei	ole
ot Allow Data	Lond	ing: Do Not Allow FLASH loading:	Aes	sty reports
rface Boards	CPL	J Boards Alarm I/O Groups Options		
loard/Sectio	-	Description	Sections	AddRoad
loard/Sectio	-		Sections 2	Add Board
Board/Sectio	n#	Description		Add Board E dit Board Delete Board
- 13 - 13	n#	Description Dual Serial Interface Board (635) Serial Data Channel Serial Data Channel	2	Edit Board
	n#	Description Dual Serial Interface Board (635) Serial Data Channel	2	Edit Board Delete Board

- 13. Select Configure > Hardware > Serial Channels from the SG menu to configure the DSI boards.
  - Set the Channel Mode to "Output Relays" (or "Elevator Control Relays") as needed.
  - In the Relay Count droplist, pick the total number of Relays you have on all boards installed.
  - Click APPLY to save settings. These relays will be added to the system. (General Output Relays appear in the Output Properties screen.)

Serial Channe	els 🗙	
Cluster:	2 Chittagong Bangladesh Standard Time $$	Edit
Control Unit:	All Controllers $\sim$	Apply
		Cancel
	Cluster: 002, Cont: 001, Brd: 4, Sect: 1	
Description:	Serial Channel Cluster: 002, Cont: 001, Brd: 4, Sect: 1	
Channel Mode:	Output Relays	~
Relay Count:	24 ~	

- 14. Select Configure > Hardware > Outputs from the SG menu to configure the individual output relays.
  - Select the correct *Loop name* and *Controller name*.
  - Select the desired output from the [Output Name] list.
  - Click EDIT button. You can change the Output Name to a logical name (the physical coordinates will continue to display above the name field for reference (cluster, unit, DSI board and section, output module ID and output position number).
  - Select the Schedule (always, never, or a custom sched)
  - > Select the **Output Type** (follows, timeout, latching, etc.).
  - You can check the [Show in Tree] option to allow the output to display in the SG Hardware Tree.
  - In the Input Source 1 tab (shown), configure the output as needed (you must have already created any custom I/O Group name if needed).
- **15.** You must set the [Input Sources Relationship] option to the appropriate choice i.e., Any(or); All(and).

NOTE: See the *Software User Guide Chapter-9* for more Output Programming steps – also available through the Help Menu.

Loop:       2 Chittagong Bangladesh Standard Time       Edit         Control Unit:       Cluster #: 2. Unit #: 1       Apply       Reports ▼         Pot Type:       Dual Serial Interface Board (600) Clust: 002, Cont: 001, B: 4, S: 1, 0: 03 - (ID: 23)       Cancel       Scheduled Actions         Output Name:       Clust: 002, Cont: 001, B: 4, S: 1, 0: 03       Show In Tree       Input Sources Relationship:         Schedule       Markowski       Show In Tree       Input Sources Relationship:       Any (0R Mode)         Output type:       Follows       Input Source 1 Input Source 2 Input Source 3 Input Source 4 Options: Graphic Symbols       Select an I/O Group:       Select tiggering conditions:       Select input mode:         Input Source 1       Input Source 2 Input Source 3 Input Source 4 Options: Graphic Symbols       Select input mode:       Input Source         Invased Offset 01       Unused Offset 17       Unused Offset 17       Inpused Offset 17         Unused Offset 01       Unused Offset 17       Unused Offset 19       Unused Offset 20         Unused Offset 03       Unused Offset 20       Unused Offset 20       Unused Offset 20         Unused Offset 05       Unused Offset 23       Unused Offset 23       Unused Offset 23         Unused Offset 06       Unused Offset 23       Unused Offset 24       Unused Offset 25         Unused Of	Outputs 🗙	
Control Onin.       Dual Serial Interface Board (600)       Cancel       Scheduled Actions         Port Type:       Dual Serial Interface Board (600)       Clust: 002, Cont: 001, B: 4, S: 1, 0: 03       Input Sources Relationship:         Output Name:       Clust: 002, Cont: 001, B: 4, S: 1, 0: 03       Input Sources Relationship:       Input Sources Relationship:         Schedule       Follows       Input Source 1       Input Source 2       Input Source 4       Options       Graphic Symbols         Select an I/O Group       Select triggering conditions:       Select input mode:       Imput Source 1       Select triggering conditions:       Select input mode:         I/O Group Mode       Unused Offset 17       Unused Offset 18       Unused Offset 18       Unused Offset 19         Unused Offset 03       Unused Offset 21       Unused Offset 21       Unused Offset 21         Unused Offset 05       Unused Offset 23       Unused Offset 23       Unused Offset 24         Unused Offset 05       Unused Offset 24       Unused Offset 25       Unused Offset 25       Unused Offset 26         Unused Offset 10       Unused Offset 25       Unused Offset 26       Unused 0ffset 26       Unused 0ffset 27         Unused Offset 13       Unused Offset 23       Unused 0ffset 23       Unused 0ffset 24       Unused 0ffset 25         Unused Offset 13 <th>Loop:</th> <th></th>	Loop:	
Clust: 002, Cont: 001, B: 4, S: 1, 0: 03 - (ID: 23)         Output Name:         Schedule         Output Yope:         Follows         Output type:         Follows         Input Source 1         Input Source 2         Input Source 3         Input Source 1         Input Source 2         Input Source 3         Input Source 4         Options         Graphic Symbols         Select an I/O Group:         Select triggering conditions:         Select an I/O Group **         Active (On or Alarm)         I/O Group Mode         Unused Offset 01         Unused Offset 17         Unused Offset 10         Unused Offset 10         Unused Offset 11         Unused Offset 22         Unused Offset 23         Unused Offset 24         Unused Offset 25         Unused Offset 26         Unused Offset 10         Unused Offset 24         Unused Offset 25         Unused Offset 26         Unused Offset 27         Unused Offset 28         Unused Offset 31         Unused Offset 31         Unused Offset 42 </td <td>Control Unit:</td> <td>Cluster #: 2, Unit #: 1</td>	Control Unit:	Cluster #: 2, Unit #: 1
Output Value:       *** ALWAYS ***       Input Sources Relationship:         Output type:       Follows       Any (OR Mode)         Input Source 1       Input Source 2       Input Source 4       Options         Input Source 1       Input Source 2       Input Source 4       Options       Graphic Symbols         Select an I/O Group:       Select triggering conditions:       Select input mode:         *** ND I/D Group ***       Active (On or Alarm)       Imput Source 2         I/VG Group Mode       Unused Offset 17       Impused Offset 18         Unused Offset 01       Unused Offset 18       Unused Offset 19         Unused Offset 05       Unused Offset 20       Unused Offset 20         Unused Offset 05       Unused Offset 21       Unused Offset 22         Unused Offset 05       Unused Offset 23       Unused Offset 24         Unused Offset 08       Unused Offset 25       Unused Offset 25         Unused Offset 10       Unused Offset 26       Unused Offset 26         Unused Offset 11       Unused Offset 26       Unused Offset 27         Unused Offset 13       Unused Offset 23       Unused Offset 24         Unused Offset 13       Unused Offset 23       Unused Offset 24         Unused Offset 13       Unused Offset 23       Unused Offset 24	Port Type:	Clust: 002, Cont: 001, B: 4, S: 1, 0: 03 - (ID: 23)
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Image: ND 1/D Group ***       Active (On or Alarm)       Image: Any (OR)         I/D Group Mode       Image: Offset 01       Unused Offset 17         Unused Offset 01       Unused Offset 18       Image: Offset 03         Unused Offset 03       Unused Offset 19       Image: Offset 20         Unused Offset 04       Unused Offset 21       Image: Offset 21         Unused Offset 05       Unused Offset 22       Image: Offset 23         Unused Offset 07       Unused Offset 23       Image: Offset 08         Unused Offset 08       Unused Offset 25       Image: Offset 25         Unused Offset 10       Unused Offset 26       Unused Offset 27         Unused Offset 11       Unused Offset 27       Unused Offset 28         Unused Offset 13       Unused Offset 23       Unused Offset 24         Unused Offset 13       Unused Offset 24       Unused Offset 25         Unused Offset 13       Unused Offset 26       Unused Offset 26         Unused Offset 13       Unused Offset 27       Unused Offset 28         Unused Offset 13       Unused Offset 23       Unused Offset 24         Unused Offset 14       Unused Offset 30       Unused 05         Unused Offset 15       Unused 05       Unused 05       Unused 05	Input Source 1	Input Source 2 Input Source 3 Input Source 4 Options Graphic Symbols
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- **16. IMPORTANT:** You must *Load Data* to the controller from the *GCS Loader screen*. You can open the *GCS Loader Utility from the Hardware Tree.* Locate the appropriate *Loop Name* that the controller belongs to. Then right-click on the Loop Name and select the 'Load' option from the command menu.
  - a) When the *initial Data Load* is completed, the system will calibrate the outputs.
  - b) Any future changes to the Output programming, will be sent to the panel when the operator clicks the [Apply] button to save changes in the Output Properties screen. However, if you are in doubt, or the panel doesn't seem to pick up the changes, you can always perform a *manual data load* to ensure that your outputs are correctly calibrated. Follow the instructions in Step 16.
  - c) In the GCS Loader's Data tab, you should check all available loader options, because some programming is interdependent on other components such as schedules. To speed up the loading process, you can safely uncheck or omit loading 'all cards' if you know the user cardholder database is large and you know you do not have card changes or load all cards on a separate pass after you finish loading the system programming.
- 17. You can also verify the output device status of the RS485 Output Modules from the *Controller Properties screen*. (Configure > Hardware > 635 Controller).
  - In the Controller Properties screen, expand the DSI Board and select the appropriate Section (1 or 2), then click the [RS-485 Device Info] button to retrieve a list of all the Output Modules connected to the DSI Board. Individual relays are not shown in this screen.
    - 'online' = an Output Module is detected and is configured in System Galaxy for the Module number shown. The Module number is the Output Board's binary ID was configured in Step-8 of this document. Above the Modules listed you can see the DSI Board info: Cluster ID, Controller ID, DSI Board ID, Sect No.
    - 'off-line or not defined' = either the Software did not detect an Output Module OR the Module has not been configured into the Serial Channel programming screen (see Step-13 of this document).

Module #	Name	Refresh
<u>^</u> 1	Module: 1 online	
<u>^</u> 2	Module: 2 online	
Δз	Module: 3 online	
<u>^</u> 4	Module: 4 online	
<u>^</u> 5	Module: 5 online	
<u>A</u> 6	Module: 6 online	
17	Module: 7 online	
18	Module: 8 online	
<b>X</b> 9	Module: 9 off-line or not defined	
🗙 10	Module: 10 off-line or not defined	
×11	Module: 11 off-line or not defined	
X 12	Module: 12 off-line or not defined	
🗙 13	Module: 13 off-line or not defined	
×14	Module: 14 off-line or not defined	
🗙 15	Module: 15 off-line or not defined	
× 16	Module: 16 off-line or not defined	

**NOTE** – The screen above shows **8** *Modules* on Section-2 of the DSI Board. The numbers 1-8 are the Board IDs of each Output Module, not the individual output relays. Each output module supports 8 output relays.

**NOTE** – *Individual Relay Numbering* is rigidly imposed in the system for Output Relay Modules, meaning Relays 1 thru 8 are always on ORM#1; Relays 9 thru 16 are always on ORM#2; etc. This is true for all Output Relay Modules, regardless of whether they are used for *General Purpose Outputs* and *Elevator Relay Outputs*.

**NOTE** – To see the status of *individual relays*, you can use the *Device Status screen* (View > Device Status).