

# ANALOG WAY LIVECORE™

## Module: GPIO

### Crestron 3-series

Date: **April 06, 2016**  
Driver version: **V3.00**  
Compatible with: **LiveCore™ Firmware v4.00.x or above**

## GENERAL

This is an optional module for controlling LiveCore™ series processors. It allows control of GPI and GPO available on:

- a LiveCore™ processor (master device)
- a LiveCore™ processor (master device) and a LiveCore™ Expansion module (slave device)
- a LiveCore™ processor (master device) and a compatible LiveCore™ processor linked together (slave device)

Important: One single GPIO module must be included even if you intend to control GPIO of a secondary device.

## CONNECTION

This module has to be connected to the main module (LiveCore\_Main).

## Control

### Inter\_connect\_Modules

From_Module_Main	String_in	To be connected to the main module (LiveCore_Main)
<a href="#">Refresh_All</a>	<a href="#">Digital_in</a>	<a href="#">Pulse for module initialization</a>
To_Module_Main	String_out	To be connected to the main module (LiveCore_Main)
Message_Txt	String_out	Status message to be displayed in user interface. To be connected to the main module (LiveCore_Main)
<a href="#">Refresh_In_Progress_FB</a>	<a href="#">Digital_out</a>	<a href="#">Module initialization in progress</a>
<a href="#">Next_Module_Refresh_OS</a>	<a href="#">Digital_out</a>	<a href="#">To be connected to next module for daisy chain initialization</a>

### GPIO\_In

X is the screen index (1=>8)

<a href="#">GPIO_In_Master_Take_ScreenX_Toggle_PB</a>	<a href="#">Digital_in</a>	<a href="#">Include/exclude screen X in/from the list of screens that will execute a TAKE action when the GPI is activated on the Master LiveCore™ device</a>
<a href="#">GPIO_In_Slave_Take_ScreenX_Toggle_PB</a>	<a href="#">Digital_in</a>	<a href="#">Include/exclude screen X in the list of screens that will execute a TAKE action when the GPI is activated on the Slave LiveCore™ device</a>
<a href="#">GPIO_In_Master_Available_FB</a>	<a href="#">Digital_out</a>	<a href="#">1 if GPI is available for Master LiveCore™ device</a>
<a href="#">GPIO_In_Slave_Available_FB</a>	<a href="#">Digital_out</a>	<a href="#">1 if GPI is available for Slave LiveCore™ device</a>
<a href="#">GPIO_In_Master_Take_ScreenX_FB</a>	<a href="#">Digital_out</a>	<a href="#">1 if GPI activation on the Master LiveCore™ device triggers a TAKE on screen X</a>
<a href="#">GPIO_In_Slave_Take_ScreenX_FB</a>	<a href="#">Digital_out</a>	<a href="#">1 if GPI activation on the Slave LiveCore™ device triggers a TAKE on screen X</a>

## GPIO\_Out

X is the GPO index (1=>5)

GPIO_OutX_Master_Toggle_PB	Digital_in	Activate/deactivate GPO X on the Master LiveCore™ device
GPIO_OutX_Master_Mode_Set	Analog_in	Mode selection for GPO X on the Master LiveCore™ device. See table below
GPIO_OutX_Master_Available_FB	Digital_out	1 if GPO X is available on the Master LiveCore™ device
GPIO_OutX_Master_Status_FB	Digital_out	1 if GPO X is activated on the Master LiveCore™ device
GPIO_OutX_Master_Mode_FB	Analog_out	Selected mode for GPO X on the Master LiveCore™ device. See table below
GPIO_OutX_Slave_Toggle_PB	Digital_in	Activate/deactivate GPO X on the Slave LiveCore™ device
GPIO_OutX_Slave_Mode_Set	Analog_in	Mode selection for GPO X on the Slave LiveCore™ device. See table below
GPIO_OutX_Slave_Available_FB	Digital_out	1 if GPO X is available on the Slave LiveCore™ device
GPIO_OutX_Slave_Status_FB	Digital_out	1 if GPO X is activated on the Slave LiveCore™ device
GPIO_OutX_Slave_Mode_FB	Analog_out	Selected mode for GPO X on the Slave LiveCore™ device. See table below

## GPO mode

0	Free GPO Mode
1	Tally GPO Mode (GPO X changes during take event)
2	Tally GPO Mode (GPO X changes after take event)