

ANALOG WAY  
 LiveCore™– Crestron 2-series & 3-series  
 MODULE GPIO

### CONTACT SUPPORT

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<b>NOTES:</b>	Driver version V3.01, compatible with LiveCore™ Firmware v4.00.x or above
<b>HAND-IN DATE:</b>	January 3, 2017

### GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	LiveCore_GPIO_V3.01
<b>CATEGORY:</b>	Logic
<b>VERSION:</b>	Driver version V3.01
<b>SUMMARY:</b>	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.
<b>GENERAL NOTES:</b>	
<b>CRESTRON HARDWARE REQUIRED:</b>	3-series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	
<b>VENDOR FIRMWARE:</b>	LiveCore™ firmware v4.00.x or above
<b>VENDOR SETUP:</b>	
<b>CABLE DIAGRAM:</b>	TCP-IP

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**CONTROL: Inter\_connect\_Modules**

From_Module_Main	S	To be connected to the main module (LiveCore_Main)
Refresh_All	D	Pulse for module initialization

**CONTROL: GPIO\_IN - X is the screen index (1=>8)**

GPIO_In_Master_Take_ScreenX_Toggle_PB	D	Include/exclude screen X in the list of screens that will execute a TAKE action when the GPI is activated on the Master LiveCore™ device
GPIO_In_Slave_Take_ScreenX_Toggle_PB	D	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

**CONTROL: GPIO\_OUT - X is the GPO index (1=>5)**

GPIO_OutX_Master_Toggle_PB	D	Activate/deactivate GPO X on the Master LiveCore™ device
GPIO_OutX_Master_Mode_Set	A	Mode selection for GPO X on the Master LiveCore™ device. See table below
GPIO_OutX_Slave_Toggle_PB	D	Activate/deactivate GPO X on the Slave LiveCore™ device
GPIO_OutX_Slave_Mode_Set	A	Mode selection for GPO X on the Slave LiveCore™ device. See table below

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**FEEDBACK : Inter\_connect\_Modules**

To_Module_Main	S	To be connected to the main module (LiveCore_Main)
Message_Txt	S	Status message to be displayed in user interface. To be connected to the main module (LiveCore_Main)
Refresh_In_Progress_FB	D	Module status initialization in progress
Refresh_All_os	D	To be connected to next module for daisy chain initialization

**FEEDBACK : GPIO\_IN - X is the screen index (1=>8)**

GPIO_In_Master_Available_FB	D	1 if GPI is available for Master LiveCore™ device
GPIO_In_Slave_Available_FB	D	1 if GPI is available for Slave LiveCore™ device
GPIO_In_Master_Take_ScreenX_FB	D	1 if GPI activation on the Master LiveCore™ device triggers a TAKE on screen X
GPIO_In_Slave_Take_ScreenX_FB	D	1 if GPI activation on the Slave LiveCore™ device triggers a TAKE on screen X

**FEEDBACK :GPIO\_OUT - X is the GPO index (1=>5)**

GPIO_OutX_Master_Available_FB	D	1 if GPO X is available on the Master LiveCore™ device
GPIO_OutX_Master_Status_FB	D	1 if GPO X is activated on the Master LiveCore™ device
GPIO_OutX_Master_Mode_FB	A	Selected mode for GPO X on the Master LiveCore™ device. See table below
GPIO_OutX_Slave_Available_FB	D	1 if GPO X is available on the Slave LiveCore™ device
GPIO_OutX_Slave_Status_FB	D	1 if GPO X is activated on the Slave LiveCore™ device
GPIO_OutX_Slave_Mode_FB	A	Selected mode for GPO X on the Slave LiveCore™ device. See table below

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<b>GPO modes</b>	
0	Free GPO Mode
1	Tally GPO Mode (GPO X changes during take event)
2	Tally GPO Mode (GPO X changes after take event)