ANALOG WAY LIVECORE^{TM}

Module: GPIO

AMX NETLINX

Date: **January 03, 2017**
Driver version: **V3.01**
Compatible with: **LiveCore^{TM} Firmware v04.00.x or above**

GENERAL

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

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

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

IMPLEMENTATION

To interface this module in an AMX program, the programmer must perform the following tasks:

- Edit the file LiveCore_User_Definitions.axi: If the GPIO module is used in the main program then you must assign the value 1 to the variable LiveCore_GPIO_Usage. If this is not the case, the value of this variable must remain at 0.

- Include the LiveCore_GPIO module in the main program and adjust specific module parameters (see example program available with this package).

COMMANDS

Command Control

None

Channels

The channels supported by the GPIO module are listed below.

Code channel	Description
11..18	Include/exclude a screen in/from the list of screens that will execute a TAKE action when the GPI is activated on the Master LiveCore^{TM} device (channel 11 for screen 1, channel 12 for screen 2, …)
31..35	Activate/deactivate a GPO on the Master LiveCore^{TM} device (channel 31 for GPO 1, channel 32 for GPO 2, …)
111..118	Include/exclude a screen in/from the list of screens that will execute a TAKE action when the GPI is activated on the Slave LiveCore^{TM} device (channel 111 for screen 1, channel 112 for screen 2, …)
136..140	Activate/deactivate a GPO on the Slave LiveCore^{TM} device (channel 31 for GPO 1, channel 32 for GPO 2, …)
255	Module initialization (automatically performed after being connected)

Levels

The levels supported by the GPIO module are listed below.

Code level	Description
31..35	Mode selection for a GPO on the Master LiveCore™ device (channel 31 for GPO 1, channel 32 for GPO 2, …) Values : - 0 : free GPO mode - 1 : Tally GPO mode (GPO changes during take event) - 2 : Tally GPO mode (GPO changes after take event)
136..140	Mode selection for a GPO on the Slave LiveCore™ device (channel 136 for GPO 1, channel 137 for GPO 2, …) Values : - 0 : free GPO mode - 1 : Tally GPO mode (GPO changes during take event) - 2 : Tally GPO mode (GPO changes after take event)

FEEDBACKS

Channels

The channels supported by the GPIO module are listed below.

Code channel	Description
1	GPI availability on the Master LiveCore™ device
2	GPI status on the Master LiveCore™ device
21..25	GPO availability on the Master LiveCore™ device (channel 21 for GPO 1, channel 22 for GPO 2, …)
31..35	GPO status on the Master LiveCore™ device (channel 31 for GPO 1, channel 32 for GPO 2, …)
101	GPI availability on the Slave LiveCore™ device
102	GPI status on the Slave LiveCore™ device
123..130	GPO availability on the Slave LiveCore™ device (channel 123 for GPO 1, channel 124 for GPO 2, …)
136..140	GPO status on the Master Slave device (channel 136 for GPO 1, channel 137 for GPO 2, …)
255	Module initialization status

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Levels

The levels supported by the GPIO module are listed below.

Code level	Description
31..35	GPO mode on the Master LiveCore^{TM} device (level 31 for GPO 1, level 32 for GPO 2, …) Values : - 0 : free GPO mode - 1 : Tally GPO mode (GPO changes during take event) - 2 : Tally GPO mode (GPO changes after take event)
136..140	GPO mode on the Slave LiveCore^{TM} device (level 136 for GPO 1, level 137 for GPO 2, …) Values : - 0 : free GPO mode - 1 : Tally GPO mode (GPO changes during take event) - 2 : Tally GPO mode (GPO changes after take event)