

Description

This module allows 2-way control of the Virtual GPI and GPO objects in the Bose EX-1280C. The ability to set the input or output on or off, toggle the input or outputs state, and read current state is supported with these modules.

Supported Processors

This module may be used with any 2-Series or 3-Series Crestron processor with Ethernet or Serial port capable of 115,200 baud.

Communication setup

This module is intended to be used with the Bose_EX-1280C_Communication_Manager_v1. Please see the Communication Manager for communications setup.

Module Setup and Unsolicited Changes

Each ControlSpace Designer object contains a Label property. This Label is used in the Crestron Module parameter to control that object. The Label for any object can be found by opening the properties for that object in ControlSpace Designer. When entering the label into the Crestron Module, you must surround the label in quotes. Additionally the label must be an exact match to the Label in ControlSpace Designer.

The recommended practice is to prefix the label with # in both ControlSpace Designer and in the Crestron Module to enable unsolicited feedback when the object's values change. If the label is not prefixed with a #, it will limit the functionality of the Crestron Modules. When prefixing a label with #, you must surround the label with quotes in SIMPL.

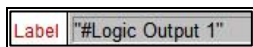


Image 1: Example Label Parameter in SIMPL Windows



Image 2: Example Label Property in ControlSpace Designer

Inputs, Outputs, and Parameter Descriptions – GPI Module

Digital Inputs

[logic_inputx_on]	Pulse to set the logic input state to high.
[logic_inputx_off]	Pulse to set the logic input state to low.
[logic_inputx_toggle]	Pulse to toggle the input state.
[request_settings]	Pulse to query the DSP for all current Virtual GPI values.

Analog Inputs

Serial Inputs

from_communications_manager \$	Tie to Bose EX-1280C Communications manager output.
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Digital Outputs

[logic_inputx_on_fb]	High when the corresponding Virtual GPI is high.
[logic_inputx_off_fb]	High when the corresponding Virtual GPI is low.
[request_settings_busy]	High when the module is querying for all Virtual GPI values.

Analog Outputs

Serial Outputs

to_communications_manager\$	Tie to Bose EX-1280C Communications manager output.
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Paramaters

Label	Enter in the Label of the Virtual GPI object as defined in ControlSpace Designer properties. This parameter must be enclosed in quotes. Use a # before the label name in both ControlSpace Designer and the module to enable unsolicited feedback.
Number of Inputs	Enter the number of Virtual GPIs that are being used on the Virtual GPI object. This number enables the corresponding digital inputs and outputs, and controls polling for the number inputs.

Inputs, Outputs, and Parameter Descriptions – GPO Module

Digital Inputs

[logic_outputx_on]	Pulse to set the logic input state to high.
[logic_outputx_off]	Pulse to set the logic input state to low.
[logic_outputx_toggle]	Pulse to toggle the input state.
[request_settings]	Pulse to query the DSP for all current Virtual GPO values.

Analog Inputs

Serial Inputs

from_communications_manager \$	Tie to Bose EX-1280C Communications manager output.
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Digital Outputs

[logic_outputx_on_fb]	High when the corresponding Virtual GPO is high.
[logic_outputx_off_fb]	High when the corresponding Virtual GPO is low.
[request_settings_busy]	High when the module is querying for all Virtual GPO values.

Analog Outputs

Serial Outputs

to_communications_manager\$	Tie to Bose EX-1280C Communications manager output.
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Parameters

Label	Enter in the Label of the Virtual GPO object as defined in ControlSpace Designer properties. This parameter must be enclosed in quotes. Use a # before the label name in both ControlSpace Designer and the module to enable unsolicited feedback.
Number of Inputs	Enter the number of Virtual GPOs that are being used on the Virtual GPI object. This number enables the corresponding digital inputs and outputs, and controls polling for the number inputs.

Testing Environment

EX-1280C	v0.201_build4
EX-8ML	v1.000
ControlSpace Designer	v5.0.0.805
Crestron AV3	v1.501.2867.26681
SIMPL Windows	4.07.03
Device Database	86.05.003.00
Crestron Database	63.06.002.00

Distribution Files

Bose_EX-1280C_Virtual_GPI_v1.0.umc	User module containing the Virtual GPI logic.
Bose_EX-1280C_Virtual_GPO_v1.0.umc	User module containing the Virtual GPO logic.

Revision History

V1.0 – Initial Release