

Manufacturer: Bose
Model: EX Series
Device Type: Digital Signal Processor



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Bose EX Series Command Processor IP v3.1
CATEGORY:	Conferencing
VERSION:	3.1
SUMMARY:	This module controls all TCP/IP communications with the EX-Series device.
GENERAL NOTES:	<p>This module is the core IP communication module for a suite of modules. The suite of modules utilizes the SIMPL# technology and will only work on the 3-Series and 4-Series Controllers. Up to 10 instances of this module can be used in a single program slot. The module has a parameter that allows you to choose one of the 10 instance IDs. Each instance ID can only be used once. The other modules in this suite are control modules. The control modules are responsible for providing the actual control interface in SIMPL. They register themselves automatically behind the scenes. Each of the control modules also have a command processor ID parameter that you assign to the instance of the command processor to which they report to. You can have a virtually unlimited number of control modules report to a single instance of a command processor.</p> <p>Once the processing module has determined that it is communicating with the device, it will initialize any individual control modules that are registered to it. Once a control module receives all the responses it is looking for, it will instruct the processing module that its initialization has been completed. The processing module will then request the next control modules initialization. Once all control modules are initialized that are registered with the processing module, the Is_Initialized output on the processing module will go high. At this point, you will have full control of all functionality on the registered control modules.</p> <p><i>Keep in mind the modules, during the initialization process, will get the current state of each of your control points, so you do not need to duplicate this effort. Also, you should wait for any and all processing modules to set "Is_Initialized" to high before attempting to control the device. This is your indication that the device programming is correct and ready to go</i></p> <p>IMPORTANT: While this module suite supports the majority of the Bose EX Series family, there may be certain modules or module attributes that are not supported by certain devices. Please refer to the Bose ControlSpace Serial Control Protocol v5.10 documentation for more information regarding which controls are supported for the device you are using.</p>
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.
VENDOR FIRMWARE:	v2.520

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**PARAMETERS:**

Command_Processor_ID	The unique identifier for this command processor module that component modules will use to register with this module.
IP_Address	The network address of the device to control.
IP_Port	The network port of the device to control. The default IP port is port 10055.

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**CONTROL:**

Connect	D	Pulse to establish communication with the device and starts the initialization.
Disconnect	D	Pulse to stop communication with the device.
Initialize	D	Pulse to clear all current state information for the module and reinitialize to refresh the current module state.
Debug	D	Latch high to enabled debug messages. It is recommended this signal is only used during troubleshooting and not for production.
IP_Address	S	Send text value to update the IP address the module uses to connect to the device. Changing the IP address forces the module to reconnect and reinitialize.

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**FEEDBACK:**

Is_Initialized	D	Indicates the command processor is synchronized with current device state when the signal is high, or not synchronized with current device state when the signal is low.
Is_Communicating	D	Indicates the command processor is communicating with the device when the signal is high, or not communicating when the signal is low.
Enabled_Count	A	Integer value indicates the number of enabled components.
Quarantined_Count	A	Integer value indicates the number of components that quarantined and not initialized.

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Compatibility:

440C	<p>LevelMute, Level, and State Controls</p> <ul style="list-style-type: none"> • ALL <p>Selector Control Router Control Mixer Crosspoint Control PSTN Control VoIP Control Parameter Set Control Generic Control</p>
12AEC	<p>LevelMute, Level, and State Controls</p> <ul style="list-style-type: none"> • Gain Module • Std. Mixer Input • Std. Mixer Output • AMM Input • AMM Output • Group • Logic Input • Logic Output <p>Selector Control Router Control Mixer Crosspoint Control Parameter Sets Generic Control</p>
1280	<p>LevelMute, Level, and State Controls</p> <ul style="list-style-type: none"> • Gain Module • Input • Output • Std. Mixer Input • Std. Mixer Output • AMM Input • AMM Output • USB Input • USB Output • Group • Logic Input • Logic Output <p>Selector Control Router Control Mixer Crosspoint Control Parameter Set Control Generic Control</p>
1280C	<p>LevelMute, Level, and State Controls</p> <ul style="list-style-type: none"> • ALL <p>Selector Control Router Control Mixer Crosspoint Control PSTN Control VoIP Control Parameter Set Control Logic I/O Control Generic Control</p>

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ESP-880	LevelMute, Level, and State Controls <ul style="list-style-type: none">• Gain Module• Input• Output• Std. Mixer Input• Std. Mixer Output• AMM Input• AMM Output• Group Selector Control Router Control Mixer Crosspoint Control Parameter Sets Generic Control
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TESTING:

OPS USED FOR TESTING:	CP3 1.8001.4666.20418 MC4 2.8000.00017
SIMPL WINDOWS USED FOR TESTING:	4.2000.00
CRES DB USED FOR TESTING:	214.0000.001.00
DEVICE DATABASE:	200.23000.001.00
SYMBOL LIBRARY USED FOR TESTING:	1176
SAMPLE PROGRAM:	Bose EX Series v3.1 IP Demo.smw Bose EX Series v3.1 RS232 Demo.smw
REVISION HISTORY:	v3.0 – Initial Release v3.1 – Performed bug fix for level and state components