CRESTRON

Certified Module

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

CERTIFIED
CRESTRON®
Integrated Partner

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Bose EX Series Command Processor RS232 v3.0
CATEGORY:	Conferencing
VERSION:	3.0
SUMMARY:	This module controls all serial communications with the EX Series device.
GENERAL NOTES:	This module is the core serial 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. 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. ***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*** 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.
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.
VENDOR FIRMWARE:	v2.520

PARAMETERS:

Command_Processor_ID	The unique identifier for this command processor module that component modules will use to register with this module.

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

www.crestron.com

Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*

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

CONTROL:

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.
From_Device	S	Typically connected to the receive signal of a RS232 port in Simpl Windows, this signal will contain responses from the EX Series device.

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

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.
To_Device	S	Typically connected to the transmit signal of an RS232 port in Simpl Windows, this signal will contain messages to be sent to the EX Series device.

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

Compatibility:

440C	LevelMute, Level, and State Controls • ALL Selector Control Router Control Mixer Crosspoint Control PSTN Control VoIP Control Parameter Set Control Generic Control
12AEC	LevelMute, Level, and State Controls • Gain Module • Std. Mixer Input • Std. Mixer Output • AMM Input • AMM Output • Group • Logic Input • Logic Output Selector Control Router Control Mixer Crosspoint Control Parameter Sets Generic Control
1280	LevelMute, Level, and State Controls • Gain Module • Input • Output • Std. Mixer Input • Std. Mixer Output • AMM Input • AMM Output • USB Input • USB Output • Group • Logic Input • Logic Output Selector Control Router Control Mixer Crosspoint Control Parameter Set Control Generic Control
1280C	LevelMute, Level, and State Controls • ALL Selector Control Router Control Mixer Crosspoint Control PSTN Control VoIP Control Parameter Set Control Logic I/O Control Generic Control

ESP-880	LevelMute, Level, and State Controls • 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

TESTING:

OPS USED FOR TESTING:	CP3 1.8001.4788.20471 MC4 2.7000.00040
SIMPL WINDOWS USED FOR TESTING:	4.2000.00
CRES DB USED FOR TESTING:	212.0500.002.00
DEVICE DATABASE:	200.19000.002.00
SYMBOL LIBRARY USED FOR TESTING:	1168
SAMPLE PROGRAM:	Bose EX Series v3.0 RS232 Demo.smw
REVISION HISTORY:	v3.0 – Initial Release