

Manufacturer: Bose
Model: EX-8ML
Device Type: Digital Signal Processor



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Bose EX-8ML Command Processor IP v1.0
CATEGORY:	Conferencing
VERSION:	1.0
SUMMARY:	This module controls all UDP/IP communications with the EX-8ML 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>
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.
VENDOR FIRMWARE:	v98.0

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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.
Enable_Logic_Events	When set to "Yes", the module will set an Event Notification IP address and port for the EX-8ML device to receive event notifications from its logic inputs. Setting to "Yes" will also instruct any component modules registered to this command processor to setup the logic input events for its respective channel. Set to "No" if events will be maintained in a Bose ControlSpace design.
Adapter_Type	Set to the ethernet adapter type of the Crestron processor that will on the same network as the EX-8ML device. This is important if the processor will be intended to receive logic events from the EX-8ML device. Options include: <ul style="list-style-type: none">- LAN- Control Subnet- Wi-Fi- LAN 2
Adapter_IP_Override	An optional parameter to define a specific IP address that is intended to receive event notifications from the EX-8ML device. To ignore this parameter, set to 0.0.0.0 or an empty string: ""
Adapter_Port_Override	An optional parameter to define a specific local port that is intended to receive event notifications from the EX-8ML device. To ignore this parameter, set to 0d.

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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.
Debug	D	Latch high to enabled debug messages. It is recommended this signal is only used during troubleshooting and not for production.
Find_Unit	D	Pulse to activate the 'Find Unit' function on the device. The lights on the device will blink for 5 seconds.
Identify_Unit	D	Latch high to activate the 'Identify Unit' function on the device. The lights on the device will blink until this signal is set low.
Preset_Select	A	Set to the preset number that will either be loaded or saved. Valid range is from 0d to 9d.
Preset_Save	D	Pulse to save preset defined on 'Preset_Select' signal.
Preset_Load	D	Pulse to load preset defined on 'Preset_Select' signal.
Phantom_Power_All_On	D	Pulse to turn on phantom power on all channels of device.
Phantom_Power_All_Off	D	Pulse to turn off phantom power on all channels of device.
Logic_Output_1_All_On	D	Pulse to turn on the first logic output of each Channel Control module registered to this command processor.
Logic_Output_1_All_Off	D	Pulse to turn off the first logic output of each Channel Control module registered to this command processor.
Logic_Output_2_All_On	D	Pulse to turn on the second logic output of each Channel Control module registered to this command processor.
Logic_Output_2_All_Off	D	Pulse to turn off the second logic output of each Channel Control module registered to this command processor.

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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.
Identify_Unit_Is_On	D	Indicates the state of the Identify Unit function of the device.
Preset_Saved	D	Pulses high to indicate that the preset defined in the 'Preset_Select' signal has been saved successfully.

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**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-8ML v1.0 Demo.smw
REVISION HISTORY:	v1.0 – Initial Release