

Zpre2 Crestron Module Notes

GENERAL:

SIMPLWINDOWS NAME: Parasound Zpre2.umc

MODULE VERSION: 1.0

SUMMARY: Controls all functions of the Parasound Zpre2 Zone Preamplifier and provides full feedback.

GENERAL NOTES: This module will control all RS-232 functions of the Parasound Zpre2 preamplifier. Control includes input select, power, mute, volume and full status request.

The Zpre2 sends feedback automatically anytime you issue an RS-232, IR or front panel command, so there is no need to poll it. If you need additional feedback you can poll the Zpre2 manually by pulsing the "Status_Request" input high. Because the volume control is a motor driven type there is no exact feedback of the current volume setting. When the volume is turned up or down using an IR or RS232 command, feedback will be transmitted confirming the volume was increased or decreased. This is indicated by the "Volume_Up_fb" and "Volume_Down_fb" signals.

HARDWARE SETUP: RS-232
Baud rate: 9600
Parity: None
Data Bits: 8
Stop Bits: 1
TxD = Pin 2, Rx D = Pin 3, Gnd = Pin 5



CONTROL:

Signal Name	Signal Type	Description
Zpre2_Command\$	S	Serial commands going to the Zpre2 for control
Power_Toggle	D	Toggles the power on and off
Power_On	D	Turns the power on
Power_Off	D	Turns the power off
Volume_Up	D	Turns the volume up
Volume_Down	D	Turns the volume Down
Mute_Toggle	D	Toggles between mute on and off
Mute_On	D	Turns the mute on
Mute_Off	D	Turns the mute off
Previous_Input	D	Selects the previous input
Next_Input	D	Selects the next input
Input_1	D	Selects input 1
Input_2	D	Selects input 2
Input_3	D	Selects input 3
Input_4	D	Selects input 4
Status_Request	D	Polls the Zpre2 for full status (input, Mute, power)

FEEDBACK:

Signal Name	Signal Type	Description
Zpre2_feedback\$	S	Serial commands from the Zpre2 with feedback information
Power_On_fb	D	Indicates the power is on
Power_Off_fb	D	Indicates the power is off
Mute_On_fb	D	Indicates mute is on
Mute_Off_fb	D	Indicates mute is off
Input_1_fb	D	Input 1 is selected
Input_2_fb	D	Input 2 is selected
Input_3_fb	D	Input 3 is selected
Input_4_fb	D	Input 4 is selected
Volume_Up_fb	D	Momentary pulse indicating the volume was just increased
Volume_Down_fb	D	Momentary pulse indicating the volume was just decreased

TESTING:

Control Processor	Pro2 v3.137
Sample Program	Zpre2 module test.smw
Compiler	SIMPL Windows 2.06.20
Touch Panel	TPS-3000
Touch Panel Program	Zpre2 module test.vtp
Revision History	None

For the complete Zpre2 RS-232 protocol, please see our website: www.parasound.com