



PARASOUND

Zhd Crestron Module Notes

GENERAL:

SIMPLWINDOWS MODULE NAME: Parasound Zhd.umc

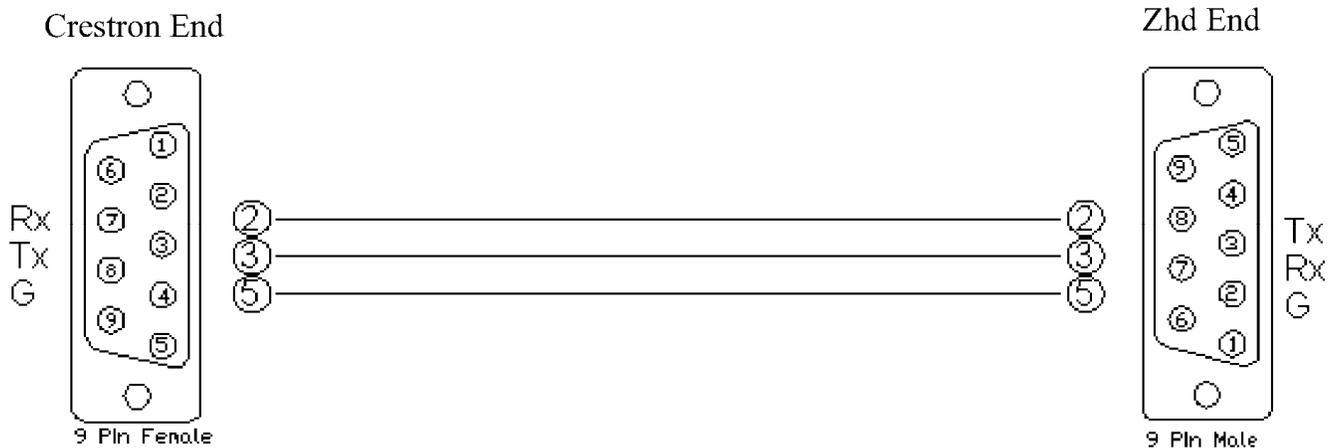
MODULE VERSION: 1.0

SUMMARY: Controls all functions of the Zhd HDMI selector and provides full feedback.

GENERAL NOTES: This module will control all RS-232 functions of the Parasound Zhd HDMI Selector. Control includes input 1-5, Output Off, Boost On, Boost Off, RS-232 feedback On, RS-232 feedback Off and Full Status request.

The Zhd sends feedback automatically anytime you issue a command so there is no need to poll it as long as RS-232 feedback is turned on. From the factory the Zhd comes with feedback turned on. Please note that if the feedback has been turned off, you will need to issue an RS-232 feedback On command. Feedback is turned on by pulsing the "RS-232_Feedback_On" input high. Feedback only needs to be turned on once and the setting will be memorized. It only needs to be pulsed and does not need to remain high. You can also poll the Zhd manually by pulsing the "Status_Request" input high.

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



CONTROL:

Signal Name	Signal Type	Description
Input_1	D	Selects HDMI input 1
Input_2	D	Selects HDMI input 2
Input_3	D	Selects HDMI input 3
Input_4	D	Selects HDMI input 4
Input_5	D	Selects HDMI input 5
Output_Off	D	Turns HDMI output off
RS-232_Feedback_Off	D	Turns automatic feedback off
RS-232_Feedback_On	D	Turns automatic feedback on
Boost_Off	D	Turns Boost off
Boost_On	D	Turns Boost on
Status_Request	D	Polls Zhd for full status (Input, Boost, Feedback)
Zhd_command\$	S	Serial commands going to the Zhd for control

FEEDBACK:

Signal Name	Signal Type	Description
Input_1_fb	D	HDMI input 1 is selected
Input_2_fb	D	HDMI input 2 is selected
Input_3_fb	D	HDMI input 3 is selected
Input_4_fb	D	HDMI input 4 is selected
Input_5_fb	D	HDMI input 5 is selected
Output_Off_fb	D	HDMI output is turned off
RS-232_Feedback_Off_fb	D	Automatic feedback is off
RS-232_Feedback_On_fb	D	Automatic feedback is on
Boost_Off_fb	D	Boost is off
Boost_On_fb	D	Boost is on
Zhd_feedback\$	S	Serial commands from the Zhd with feedback information

TESTING:

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

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