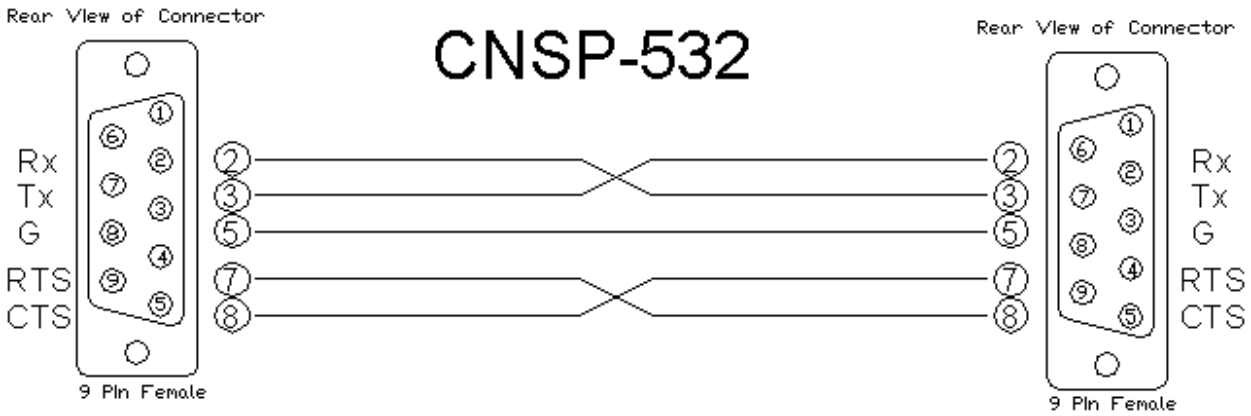
Partner: Yamaha
Model: RX-Z11
Device Type: Receiver

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Yamaha RX-Z11 Receiver v1.1
CATEGORY:	Receiver/Processor
VERSION:	1.1
SUMMARY:	Controls the RX-Z11 receivers and provides true feedback.
GENERAL NOTES:	This module controls the Yamaha RX-Z11 receivers. It provides true feedback. All standard run time functions are included.
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	RXZ11-0132
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-532



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CONTROL:

Master_Power_On/Off	D	Pulse to turn all zones on or off.
Main_Zone_Power_On/Off/Toggle	D	Pulse to turn the main zone power on and off.
Main_Zone_Volume_Up/Down	D	Press and hold to adjust the main zone volume.
Main_Zone_Volume_Mute_On/Off/Toggle	D	Pulse to turn the main zone volume mute on and off.
Input_*	D	Pulse to select the main zone input.
Main_Zone_Sleep_*	D	Pulse to set the sleep time for the main zone.
Effect_*	D	Pulse to select the desired surround sound effect.
Input_Mode_*	D	Pulse to select the input mode.
Speaker_*_On/Off	D	Pulse to turn the A or B speakers on and off.
Zone_*_Power_On/Off/Toggle	D	Pulse to turn the zone 2 or 3 power on and off.
Zone_*_Volume_Up/Down	D	Press and hold to adjust the zone 2 or 3 volume.
Zone_*_Volume_Mute_On/Off/Toggle	D	Pulse to turn the zone 2 or 3 volume mute on and off.
Zone_*_Input_*	D	Pulse to select the zone 2 or 3 input.
Preset_*_Mem_*	D	Pulse to store the current volume level in a preset for the desired zone.
Preset_*_Rec_*	D	Pulse to recall the desired volume preset for the desired zone.
HD_Radio/Tuner_AM/FM	D	Pulse to select the AM or FM band.
HD_Radio/Tuner_Search_Mode_*	D	Pulse to select the desired search mode.
HD_Radio/Tuner_Preset/Frequency_Up/Down	D	Pulse to start scanning through the presets or frequencies.
HD_Radio/Tuner_Frequency_Key_*	D	Pulse to enter the desired tuner frequency. You must pulse the enter key input to send the new channel number.
HD_Radio_Program_*	D	Pulse to select the desired HD Radio tuner program.
AM/FM/HD_Radio_Preset_*	D	Pulse to select the desired tuner preset. The presets are shared between the analog tuner and the HD Radio tuner.

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XM_Search_Mode_*	D	Pulse to select the desired XM search mode.
XM_Channel_Up/Down	D	Pulse to step to the next or previous channel.
XM_Category_Up/Down	D	Pulse to step to the next or previous category.
XM_Channel_Key_*	D	Pulse to enter the desired XM Channel. You must pulse the enter key input to send the new channel number.
XM_Preset_*	D	Pulse to select the desired XM preset.
iPod_*	D	Pulse to control the iPod. To see the iPod information on the Crestron system, you must pulse the iPod_Display input.
Net/USB_*	D	Pulse to control the Net/USB. To see the Net/USB information on the Crestron system, you must pulse the Net/USB_Display input.
Initialize	D	Pulse to poll the receiver for its current status. This should only be required once. The module will automatically get the status when a command is sent.
From_Device$	S	Serial signal to be routed from a 2-way serial com port.

FEEDBACK:

Master_Power_On/Off_Fb	D	High to indicate the current state of the master power.
Main_Zone_Power_On/Off_FB	D	High to indicate the main zone's current power status.
Main_Zone_Volume_Bar	A	Analog value indicating the main zone's current volume level. To be displayed using a bar graph on a touch panel.
Main_Zone_Volume_Mute_On/Off_FB	D	High to indicate the main zone's current volume mute state.
Input_*_FB	D	High to indicate the main zone's current input.
Main_Zone_Sleep_*_Fb	D	High to indicate the current sleep mode state.
Effect_*_FB	D	High to indicate the currently selected surround effect.
Input_Mode_*_FB	D	High to indicate the currently selected input mode.
Zone_*_Power_On/Off_FB	D	High to indicate the current power state for the zones 2 and 3.
Zone_*_Volume_Bar	A	Analog signal indicating the current volume level for zones 2 and 3.
Zone_*_Input*_FB	D	High to indicate the currently selected input for zones 2 and 3.

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Tuner_AM/FM_FB	D	High to indicate the tuner's current band.
Tuner_Search_Mode_*_Fb	D	High to indicate the current tuner search mode.
Tuner_Frequency_Text$	S	Serial signal indicating the current tuner frequency number or the channel number being entered using the Tuner Frequency keys.
HD_Radio_AM/FM_FB	D	High to indicate the HD Radio's current band.
HD_Radio_Search_Mode_*_Fb	D	High to indicate the current HD Radio search mode.
HD_Radio_Frequency_Text$	S	Serial signal indicating the current HD Radio Frequency number or the channel number being entered using the HD Radio Frequency keys.
HD_Radio_Program_*_Fb	D	High to indicate the currently selected HD Radio program.
AM/FM/HD_Radio_Preset_*_Fb	D	High to indicate the currently selected preset. The presets are shared between the analog tuner and the HD Radio tuner
XM_Search_Mode_*_Fb	D	High to indicate the currently selected search mode.
XM_Channel_Number	S	Serial signal indicating the current XM Channel number or the channel number being entered using the XM Channel keys.
iPod_Control_Mode_*_Fb	D	High to indicate the current iPod control mode.
iPod_Repeat_Mode_*_Fb	D	High to indicate the current iPod repeat mode.
iPod_Shuffle_*_Fb	D	High to indicate the current iPod shuffle mode.
Net/USB_Repeat_Mode_*_Fb	D	High to indicate the current Net/USB repeat mode.
Net/USB_Shuffle_*_Fb	D	High to indicate the current Net/USB shuffle mode.
Initialize_Busy	D	High to indicate that the module is currently initializing.
To_Device$	S	Serial signal to be routed to a 2-way serial com port.

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TESTING:

OPS USED FOR TESTING:	4.000.0226
SIMPL WINDOWS USED FOR TESTING:	2.10.32
DEVICE DB USED FOR TESTING:	20.01.002.00
CRESTRON DB USED FOR TESTING:	20.00.013.00
SAMPLE PROGRAM:	Yamaha RX-Z11Receiver v1.1 Demo
REVISION HISTORY:	V. 1.0 – Original Release V. 1.1 – Fixed a bug in the volume feedback. Also added code to increase the volume ramp speed.

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