

Partner:
Model:
Device Type:
AV



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Anthem MRX-X20 Receiver v1.0
CATEGORY:	Receiver/Processor
VERSION:	v1.0
SUMMARY:	Controls the Anthem MRX-720/520 AV Receiver
GENERAL NOTES:	'Sync' would typically need to be pulsed (only) one time after bootup to synchronize the state of the module with the Anthem hardware.
CRESTRON HARDWARE REQUIRED:	2-Series Processor, 3-Series Processor
SETUP OF CRESTRON HARDWARE:	SERIAL: RS-232, 115200 baud, 8N1, no handshaking TCP/IP: port number as defined in the receivers setup menu
VENDOR FIRMWARE:	V00034 02-02-2016
VENDOR SETUP:	N/A
SERIAL CABLE:	Straight through using pins 2, 3 & 5

CONTROL: (*examples below)

rx	S	Serial data from device com port or TCP/IP Client
zone'x'_on	D	Turns on zone'x'
zone'x'_off	D	Turns off zone'x'
zone'x'_input	A	Sets input value for zone'x' (range is 1 to 'input count(fb)')
zone'x'_volume_up	D	Pulse and/or hold to ramp volume up for zone'x'
zone'x'_volume_down	D	Pulse and/or hold to ramp volume down for zone'x'
zone'x'_volume-dB	A	Direct set value for zone'x' volume level in dB (matches front panel readout)
zone'x'_mute_on	D	Turns mute on in zone'x'
zone'x'_mute_off	D	Turns mute off in zone'x'
zone'x'_mute_toggle	D	Toggles mute on/off in zone'x'
zone1_balance_left	D	Pulse and/or hold to move zone1 balance left

Partner:
Model:
Device Type:



AV

zone1_balance_right	D	Pulse and/or hold to move zone1 balance right
zone1_balance	A	Direct set value for zone1 balance (range is 0 to 10)
zone1_trim_select_'y'	D	Select zone1 speaker/output for trim adjustment
zone1_trim_up	D	Pulse and/or hold to ramp zone1 trim value up
zone1_trim_down	D	Pulse and/or hold to ramp zone1 trim value down
zone1_trim_level-dB	A	Direct set value for zone 1 trim level (range is -10 to 10, LFE range is -10 to 0)
zone1_mode_'xxx'	D	Direct set to surround mode 'xxx'
zone1_mode_next/previous	D	Increment/Decrements surround mode
dolby_input	A	Input selection for Dolby volume & leveler adjustments
dolby_volume_on	D	Turns Dolby volume on for selected 'dolby_input'
dolby_volume_off	D	Turns Dolby volume off for selected 'dolby_input'.
dolby_leveler_up	D	Pulse and/or hold to ramp Dolby level up for selected 'dolby_input'
dolby_leveler_down	D	Pulse and/or hold to ramp Dolby level down for selected 'dolby_input'
dolby_leveler_value	A	Direct set value for Dolby level for selected 'dolby_input' (valid range is 0-9, 0=off)
lip-sync_input	A	Input selection for lip sync adjustment
lip-sync_up	D	Pulse and/or hold to ramp lip sync value up for selected 'lip-sync_input'
lip-sync_down	D	Pulse and/or hold to ramp lip sync value down for selected 'lip-sync_input'
lip-sync_ms	A	Direct set value in ms for selected 'lip-sync_input' (valid range is 0 to 150, in increments of 5)
tuner_tune_up	D	Pulse to tune up
tuner_tune_down	D	Pulse to tune down
tuner_seek_up	D	Pulse to tune to the next available station
tuner_seek_down	D	Pulse to tune to the previous available station
tuner_preset_store	D	Pulse to enter tuner preset store mode
tuner_preset_recall	D	Pulse to enter tuner preset recall mode (default)
tuner_preset	A	Direct set value for tuner preset store or recall
tuner_preset_up	D	Pulse to tune to the next preset station

Partner:
Model:
Device Type:



AV

tuner_preset_down	D	Pulse to tune to the previous preset station
tuner_kp-'y'	D	Pulse to select digit 'y'
tuner_kp-period	D	Pulse to insert a period character in the tuner station entry (FM band only)
tuner_kp-backspace	D	Pulse to backspace last entered character
tuner_kp-clear	D	Pulse to clear last entry
tuner_kp-enter	D	Pulse to select entered station
front_panel_brightness-'y'	D	Pulse to select the desired front panel brightness setting
front_panel_brightness_increment	D	Pulse to select the next front panel brightness setting
trigger'x'_on	D	Pulse to turn trigger'x' on
trigger'x'_off	D	Pulse to turn trigger'x' off
sync	D	Pulse to sync module with Anthem MRX-x10 hardware

FEEDBACK:

tx	S	Serial data to device com port or TCP/IP Client
zone'x'_on/off(fb)	D	Displays the current power status for zone'x'
zone'x'_input(fb)	A	Displays the current input selection for zone'x'
zone'x'_volume-%(fb)	A	Displays the current volume value for zone'x' as a percentage
zone'x'_volume-dB(fb)	A	Displays the current volume value for zone'x' in decibels (matches front panel readout)
zone'x'_mute_on/off(fb)	D	Displays the current mute status for zone'x'
zone1_balance(fb)	A	Displays the current balance value for zone1 (range is 0 to 10)
zone1_trim_select-'y'(fb)	D	Displays the current speaker/output trim selection target
zone1_trim_level-dB(fb)	A	Displays the current value for zone 1 trim level (range is -10 to 10, LFE range is -10 to 0)
zone1_mode_'xxx'(fb)	D	Indicates the current surround mode
zone1_mode(txt)	S	Displays the current surround mode in ASCII text
dolby_volume_on/off(fb)	D	Displays the current Dolby volume status

Partner:
Model:
Device Type:



AV

dolby_leveler_value(fb)	A	Displays the current Dolby leveler value (range is 0 to 9)
lip-sync_ms(fb)	A	Displays the current lip-sync setting in ms
tuner_active(fb)	D	Indicates whether or not the tuner is currently active in either zone
tuner_station(txt)	S	Displays the currently tuned station frequency
tuner_preset_store/recall(fb)	D	Displays the current preset mode, store or recall (recall is default)
tuner_preset(fb)	A	Displays the currently tuned stations preset value (0 = current station is not a preset)
front_panel_brightness_'y'(fb)	D	Displays the current front panel brightness setting
trigger1/2_on/off(fb)	D	Displays the status of each trigger
input_count(fb)	A	Displays the number of available inputs
input'xx'_name(txt)	S	Displays the name of each available input

PARAMETERS:

volume_increment		Sets the volume up/down increment amount in dB
volume_min	A	Sets the volume down minimum value/endpoint (default is -90d = -90dB)
volume_max	A	Sets the volume up maximum value/endpoint (default is 10d = 10dB)
trigger'x'	D	Enables/disables the modules control of the triggers

TESTING:

OPS USED FOR TESTING:	2-Series: v4.008.0008 (QMRMC)
SIMPL WINDOWS USED FOR TESTING:	V4.03.20
DEVICE DB USED FOR TESTING:	V72.0.1.0
CRES DB USED FOR TESTING:	V54.5.5.0
REVISION HISTORY:	v1.0 – Original release.