

**Partner:**  
**Model:**  
**Device Type:**



### GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Anthem MRX-X10 Receiver v1.0
<b>CATEGORY:</b>	Receiver/Processor
<b>VERSION:</b>	v1.0
<b>SUMMARY:</b>	Controls the Anthem MRX-710/510/310 AV Receiver
<b>GENERAL NOTES:</b>	The tuner can only have one active band. If you wish to listen to the tuner in both zone1 and zone2, the band will default to the zone1 selection. 'Sync' would typically need to be pulsed (only) one time after bootup to synchronize the state of the module with the Anthem hardware.
<b>CRESTRON HARDWARE REQUIRED:</b>	2-Series Processor, 3-Series Processor
<b>SETUP OF CRESTRON HARDWARE:</b>	SERIAL: RS-232, 115200 baud, 8N1, no handshaking TCP/IP: port number as defined in the receivers setup menu
<b>VENDOR FIRMWARE:</b>	US 1.2.0, May 22 2014 (MRX-510 hardware)
<b>VENDOR SETUP:</b>	N/A
<b>SERIAL CABLE:</b>	Straight through using pins 2, 3 & 5

### CONTROL: (\*examples below)

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

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zone'x'_mute_off	D	Turns mute off in zone
zone'x'_mute_toggle	D	Toggles mute on/off in zone
zone1_balance_left	D	Pulse and/or hold to move zone1 balance left
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)
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

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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
tuner_preset_down	D	Pulse to tune to the previous preset station
tuner_kp-'y'	D	Pulse to select digit yq
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 triggerxqon
trigger'x'_off	D	Pulse to turn triggerxqoff
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 zonexq
zone'x'_input(fb)	A	Displays the current input selection for zonexq
zone'x'_volume-%(fb)	A	Displays the current volume value for zonexqas a percentage
zone'x'_volume-dB(fb)	A	Displays the current volume value for zonexqin decibels (matches front panel readout)
zone'x'_mute_on/off(fb)	D	Displays the current mute status for zonexq
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

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		to 0)
dolby_volume_on/off(fb)	D	Displays the current Dolby volume status
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	<a href="#">Indicates whether or not the tuner is currently active in either zone</a>
tuner_band_am/fm(fb)	D	<a href="#">Displays the currently selected band (if tuner is active)</a>
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
SIMPL WINDOWS USED FOR TESTING:	V4.02.38
DEVICE DB USED FOR TESTING:	V56.02.003.00
CRES DB USED FOR TESTING:	V45.00.002.000

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REVISION HISTORY:

v1.0 – Original release.