

ANIUSB-Matrix

Command Strings

ANIUSB-Matrix command strings for third-party control systems.

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ANIUSB-Matrix Command Strings

ANIUSB Command Strings

The device is connected via Ethernet to a control system, such as AMX, Crestron or Extron.

Connection: Ethernet (TCP/IP; select "Client" in the AMX/Crestron program)

Port: 2202

Conventions

The device has 4 types of strings:

GET

Finds the status of a parameter. After the AMX/Crestron sends a GET command, the ANIUSB responds with a REPORT string

SET

Changes the status of a parameter. After the AMX/Crestron sends a SET command, the ANIUSB will respond with a RE-PORT string to indicate the new value of the parameter.

REP

When the ANIUSB receives a GET or SET command, it will reply with a REPORT command to indicate the status of the parameter. REPORT is also sent by the ANIUSB when a parameter is changed on the ANIUSB or through the GUI.

SAMPLE

Used for metering audio levels.

All messages sent and received are ASCII. Note that the level indicators and gain indicators are also in ASCII

Most parameters will send a REPORT command when they change. Thus, it is not necessary to constantly query parameters. The ANIUSB will send a REPORT command when any of these parameters change.

The character

"X"

in all of the following strings represents the channel of the ANIUSB and can be ASCII numbers 0 through 4 as in the following table

00	All channels
01-04	Dante Inputs
05	Analog Input
06	USB Input
07-08	Dante Outputs

09	Analog Output
10	USB Output

Command Strings (Common)

Get All	
Command String: < GET xx ALL >	Where xx is ASCII channel number: 00 through 10. Use this command on first power on to update the status of all parameters.
ANIUSB Response: < REP >	The ANIUSB responds with individual Report strings for all parameters.
Get Model Number	
Command String: < GET MODEL >	
ANIUSB Response: < REP MODEL {yyyyyyyyyyyyyyyyyyyyyyyyyyy}} >	Where yyyyyyyyyyyyyyyyyyyyyyyyyy is 32 characters of the model number. The ANIUSB always responds with a 32 character model number.
Get Serial Number	
Command String: < GET SERIAL_NUM >	
ANIUSB Response: < REP SERIAL_NUM {yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy} >	Where yyyyyyyyyyyyyyyyyyyyyyyyyyyyyy is 32 characters of the serial number. The ANIUSB always responds with a 32 character serial number.
Get Channel Name	
Command String: < GET xx CHAN_NAME >	Where xx is ASCII channel number: 00 through 10.
ANIUSB Response: < REP xx CHAN_NAME {yyyyyyyyyyyyyyyyyyyyyyyyyyyyy}} >	Where yyyyyyyyyyyyyyyyyyyyyyyyy is 31 characters of the channel name. The ANIUSB always responds with a 31 character name.
Get Device ID	

Command String: < GET DEVICE_ID >	The Device ID command does not contain the x channel character, as it is for the entire ANIUSB.
ANIUSB Response: < REP DEVICE_ID {yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy} >	Where yyyyyyyyyyyyyyyyyyyyyyyyyyyy is 31 characters of the device ID. The ANIUSB always responds with a 31 character device ID.
Get Firmware Version	
Command String: < GET FW_VER >	
ANIUSB Response: < REP FW_VER {yyyyyyyyyyyyyyyy} >	Where yyyyyyyyyyyyyyyy is 18 characters. The ANIUSB always responds with 18 characters.
Get Preset	
Command String: < GET PRESET >	
ANIUSB Response: < REP PRESET nn >	Where nn is the preset number 01-10. 0 = no preset active.
Set Preset	
Command String: < SET PRESET nn >	Where nn is the preset number 1-10. (Leading zero is optional when using the SET command).
ANIUSB Response: < REP PRESET nn > < REP ERR >	Where nn is the preset number 01-10. When user attempts to load an empty preset.
Get Preset Name	
Command String: < GET PRESET1 > < GET PRESET2 > < GET PRESET3 >	Send one of these commands to the ANIUSB
etc	

ANIUSB Response:	
<pre>< REP PRESET1 {yyyyyyyyyyyyyyyyyyyyyyyy} > < REP PRESET2 {yyyyyyyyyyyyyyyyyyyyyyyyyy} > < REP PRESET3 {yyyyyyyyyyyyyyyyyyyyyyyyyyy} ></pre>	Whereyyyyyyyyyyyyyyyyyyyyy is 25 characters of the device ID. The ANIUSB always responds with a 25 character device ID
etc	
Get Preset Audio Route	
Command String: < GET PRESET_AUDIO_ROUTE >	
ANIUSB Response: < REP PRESET_AUDIO_ROUTE nn >	These presets store audio routing information. Where nn is the active routing preset number 01-10. 0 = no preset active.
Set Preset Audio Route	
Command String: < SET PRESET_AUDIO_ROUTE nn >	These presets store audio routing information. Where nn is the routing preset number 01-10.
ANIUSB Response: < REP PRESET_AUDIO_ROUTE nn >	Where nn is the active routing preset number 01-10. 0 = no preset active.
Get Audio Gain	
Command String: < GET xx AUDIO_GAIN_HI_RES >	Where xx is ASCII channel number: 00 through 10.
ANIUSB Response: < REP xx AUDIO_GAIN_HI_RES yyyy >	Where yyyy takes on the ASCII values of 0000 to 1400. yyyy is in steps of onetenth of a dB.
Set Audio Gain	
Command String: < SET xx AUDIO_GAIN_HI_RES yyyy >	Where yyyy takes on the ASCII values of 0000 to 1400. yyyy is in steps of one-tenth of a dB.
ANIUSB Response: < REP xx AUDIO_GAIN_HI_RES yyyy >	Where yyyy takes on the ASCII values of 0000 to 1400.
Increase Audio Gain by n dB	I
Command String:	Where nn is the amount in one-tenth of a dB to increase the gain. nn can be

ANIUSB Response:	
< REP xx AUDIO_GAIN_HI_RES yyyy >	Where yyyy takes on the ASCII values of 0000 to 1400.
Decrease Audio Gain by n dB	
Command String: < SET xx AUDIO_GAIN_HI_RES DEC nn >	Where nn is the amount in one-tenth of a dB to decrease the gain. nn can be single digit (n), double digit (nn), triple digit (nnn).
ANIUSB Response: < REP xx AUDIO_GAIN_HI_RES yyyy >	Where yyyy takes on the ASCII values of 0000 to 1400.
Get Analog Input Gain Switch	
Command String: < GET xx AUDIO_IN_LVL_SWITCH >	Where xx is ASCII channel number: 00 or 05.
ANIUSB Response: < REP xx AUDIO_IN_LVL_SWITCH LINE_LVL > < REP xx AUDIO_IN_LVL_SWITCH AUX_LVL >	The ANIUSB will respond with one of these strings.
Set Analog Input Gain Switch	
Command String: < SET xx AUDIO_IN_LVL_SWITCH LINE_LVL > < SET xx AUDIO_IN_LVL_SWITCH AUX_LVL >	Where xx is ASCII channel number: 00 or 05. Send one of these commands to the ANIUSB
ANIUSB Response: < REP xx AUDIO_IN_LVL_SWITCH LINE_LVL > < REP xx AUDIO_IN_LVL_SWITCH AUX_LVL >	The ANIUSB will respond with one of these strings.
Get Channel Audio Mute	
Command String: < GET xx AUDIO_MUTE >	Where xx is ASCII channel number: 00 through 10.
ANIUSB Response: < REP xx AUDIO_MUTE ON > < REP xx AUDIO_MUTE OFF >	The ANIUSB will respond with one of these strings.

Mute Channel Audio	
Command String: < SET xx AUDIO_MUTE ON >	Where xx is ASCII channel number: 00 through 10.
ANIUSB Response: < REP xx AUDIO_MUTE ON >	The ANIUSB will respond with one of these strings.
Unmute Channel Audio	
Command String: < SET xx AUDIO_MUTE OFF >	Where xx is ASCII channel number: 00 through 10.
ANIUSB Response: < REP xx AUDIO_MUTE OFF >	The ANIUSB will respond with one of these strings.
Toggle Channel Audio Mute	
Command String: < SET xx AUDIO_MUTE TOGGLE >	
ANIUSB Response: < REP xx AUDIO_MUTE ON > < REP xx AUDIO_MUTE OFF >	The ANIUSB will respond with one of these strings.
Get Device Audio Mute	
Command String: < GET DEVICE_AUDIO_MUTE >	
ANIUSB Response: < REP DEVICE_AUDIO_MUTE ON > < REP DEVICE_AUDIO_MUTE OFF >	The ANIUSB will respond with one of these strings.
Set Device Audio Mute	1
Command String: < SET DEVICE_AUDIO_MUTE ON > < SET DEVICE_AUDIO_MUTE OFF > < SET DEVICE_AUDIO_MUTE TOGGLE >	Send one of these commands to the ANIUSB.

ANIUSB Response:	
< REP DEVICE_AUDIO_MUTE ON >	The ANIUSB will respond with one of
< REP DEVICE_AUDIO_MUTE OFF >	these strings.
Cat Analog Output Cain Switch	
Get Analog Output Gain Switch	
Command String:	Where xx is ASCII channel number: 00
< GET xx AUDIO_OUT_LVL_SWITCH >	or 09.
ANIUSB Response:	
< REP xx AUDIO_OUT_LVL_SWITCH LINE_LVL >	The ANIUSB will respond with one of
< REP xx AUDIO_OUT_LVL_SWITCH AUX_LVL >	these strings.
< REP xx AUDIO_OUT_LVL_SWITCH MIC_LVL >	
Set Analog Output Gain Switch	I
Command String:	
< SET xx AUDIO_OUT_LVL_SWITCH LINE_LVL >	Where xx is ASCII channel number: 00
< SET XX AUDIO_OUT_LVL_SWITCH AUX_LVL >	or 09. Send one of these commands to the ANIUSB.
< SET xx AUDIO_OUT_LVL_SWITCH MIC_LVL >	THE ANIOSB.
ANIUSB Response:	
< REP xx AUDIO_OUT_LVL_SWITCH LINE_LVL >	The ANIUSB will respond with one of
< REP xx AUDIO_OUT_LVL_SWITCH AUX_LVL >	these strings.
< REP xx AUDIO_OUT_LVL_SWITCH MIC_LVL >	
Flash Lights on ANIUSB	
Command String:	Count one of the consequence to the
< SET FLASH ON >	Send one of these commands to the ANIUSB. The flash automatically turns
< SET FLASH OFF >	off after 30 seconds.
ANIUSB Response:	
< REP FLASH ON >	The ANIUSB will respond with one of
< REP FLASH OFF >	these strings.
Turn Metering On	
Command String:	Turns metering on/off and sets rate.
< SET METER_RATE sssss >	Where sssss is a value from 00000 to 99999 representing milliseconds.

	00000= off 00100 = minimum value
	99999= maximum value
	Note: values 00001 to 00099 are not valid and result in response.
ANIUSB Response: < REP METER_RATE sssss > < SAMPLE aaa bbb ccc ddd eee fff ggg hhh iii jjj >	sssss = rate in milliseconds. Value 00000 means metering is off. Where the list that follows is the sample for each channel. Audio Levels take on values 000-060, which represent actual audio levels of -60 to 0 dBFS. aaa= channel 1 data bbb= channel 2 data ccc= channel 3 data ddd= channel 4 data eee = channel 5 data fff = channel 6 data ggg = channel 7 data hhh = channel 8 data iii = channel 9 data jjj = channel 10 data
Stop Metering	
Command String: < SET METER_RATE 0 >	A value of 00000 is also acceptable.
ANIUSB Response: < REP METER_RATE 00000 >	
Get LED Brightness	ı
Command String:	
< GET LED_BRIGHTNESS >	
ANIUSB Response: < REP LED_BRIGHTNESS n >	Where n can take on the following values:

	0 = LED disabled	
	1 = LED dim	
	2 = LED default	
Set LED Brightness	I.	
	Where n can take on the following values:	
Command String:	0 = LED disabled	
< SET LED_BRIGHTNESS n >	1 = LED dim	
	2 = LED default	
ANIUSB Response:		
< REP LED_BRIGHTNESS n >		
Get Audio Clip Indicator		
Command String:	Where xx is ASCII channel number: 00	
< GET xx AUDIO_OUT_CLIP_INDICATOR >	through 10.	
ANIUSB Response:		
< REP xx AUDIO_OUT_CLIP_INDICATOR ON >	The ANIUSB will respond with one of these strings.	
< REP xx AUDIO_OUT_CLIP_INDICATOR OFF >	unese surrige.	
Get Audio IP Address		
Command String:		
< GET IP_ADDR_NET_AUDIO_PRIMARY >		
ANIUSB Response:	Where yyyyyyyyyyyyy is a 15 digit IP	
< REP IP_ADDR_NET_AUDIO_PRIMARY {yyyyyyyyyyyyyy} >	address.	
Get Audio Subnet Address		
Command String:		
< GET IP_SUBNET_NET_AUDIO_PRIMARY >		
ANIUSB Response:	Where yyyyyyyyyyyyy is a 15 digit	
< REP IP_SUBNET_NET_AUDIO_PRIMARY {yyyyyyyyyyyyyy}} >	subnet address.	
Get Audio Gateway Address	1	

Command String:	
< GET IP_GATEWAY_NET_AUDIO_PRIMARY >	
ANIUSB Response:	Where yyyyyyyyyyyyy is a 15 digit
< REP IP_GATEWAY_NET_AUDIO_PRIMARY {yyyyyyyyyyyyyy} >	gateway address.
Get Limiter Status	
Command String: < GET xx LIMITER_ENGAGED >	Where xx is ASCII output channel number: 07 through 10. Indicates if the limiter is currently reducing the signal level.
ANIUSB Response:	
< REP xx LIMITER_ENGAGED ON >	The ANIUSB will respond with one of
< REP xx LIMITER_ENGAGED OFF >	these strings.
Get Encryption Status	
Command String:	
< GET XX ENCRYPTION_CH >	
ANIUSB Response:	
< REP XX ENCRYPTION_CH ON >	The ANIUSB will respond with one of these strings.
< REP XX ENCRYPTION_CH OFF >	these samgs.
Reboot ANIUSB	·
Command String:	
< SET REBOOT >	
ANIUSB Response:	
< REP REBOOT >	
Get Error Events	1
Command String:	Gets the last error that is loged on the
< GET LAST_ERROR_EVENT >	ANIUSB.
ANIUSB Response:	Where yyyyyyyyyyyy is up to 128
< REP LAST_ERROR_EVENT {yyyyyyyyyyyyyyy}} >	characters.
Get PEQ Filter Enable	

Command String: < GET xx PEQ yy >	Where xx is the PEQ block 07 or 10. Where yy is the PEQ filter 01-04 within the block. 00 can be used for all blocks or all filters.
ANIUSB Response: < REP xx PEQ yy ON > < REP xx PEQ yy OFF >	
Set PEQ Filter Enable	
Command String: < SET xx PEQ yy ON > < SET xx PEQ yy OFF >	Send one of these commands to the ANIUSB.
ANIUSB Response: < REP xx PEQ yy ON > < REP xx PEQ yy OFF >	Where xx is the PEQ block 07 or 10. Where yy is the PEQ filter 01-04 within the block. 00 can be used for all blocks or all filters.
Get Input Meter Display Mode	
Command String: < GET INPUT_METER_MODE >	
ANIUSB Response: < REP INPUT_METER_MODE PRE_FADER > < REP INPUT_METER_MODE POST_FADER >	The ANIUSB will respond with one of these strings.
Set Input Meter Display Mode	
Command String: < SET INPUT_METER_MODE PRE_FADER > < SET INPUT_METER_MODE POST_FADER >	Send one of these commands to the ANIUSB.
ANIUSB Response: < REP INPUT_METER_MODE PRE_FADER > < REP INPUT_METER_MODE POST_FADER >	The ANIUSB will respond with one of these strings.
Get Output Meter Display Mode	,
Command String:	

< GET OUTPUT_METER_MODE >	
ANIUSB Response: < REP OUTPUT_METER_MODE PRE_FADER > < REP OUTPUT_METER_MODE POST_FADER >	The ANIUSB will respond with one of these strings.
Set Output Meter Display Mode	
<pre>Command String: < SET OUTPUT_METER_MODE PRE_FADER > < SET OUTPUT_METER_MODE POST_FADER ></pre>	Send one of these commands to the ANIUSB.
ANIUSB Response: < REP OUTPUT_METER_MODE PRE_FADER > < REP OUTPUT_METER_MODE POST_FADER >	The ANIUSB will respond with one of these strings.
Get USB Connection Status	
Command String: < GET USB_CONNECT >	
ANIUSB Response: < REP USB_CONNECT ON > < REP USB_CONNECT OFF >	The ANIUSB will respond with one of these strings.
Get Matrix Mixer Routing	
Command String: < GET xx MATRIX_MXR_ROUTE yy >	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10.
ANIUSB Response: < REP xx MATRIX_MXR_ROUTE yy ON > < REP xx MATRIX_MXR_ROUTE yy OFF >	The ANIUSB will respond with one of these strings.
Set Matrix Mixer Routing	
Command String: < SET xx MATRIX_MXR_ROUTE yy ON > < SET xx MATRIX_MXR_ROUTE yy OFF >	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10. Send one of these commands to the ANIUSB.
ANIUSB Response:	The ANIUSB will respond with one of these strings.

< REP xx MATRIX_MXR_ROUTE yy ON > < REP xx MATRIX_MXR_ROUTE yy OFF >	
Get Matrix Mixer Gain	
<pre>Command String: < GET xx MATRIX_MXR_GAIN yy ></pre>	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10.
ANIUSB Response: < REP xx MATRIX_MXR_GAIN yyzzzz >	Where zzzz takes on the ASCII values of 0000 to 1400. zzzz is in steps of one tenth of a dB.
Set Matrix Mixer Gain	
Command String: < SET XX MATRIX_MXR_GAIN yyzzzz >	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10. Where zzzz takes on the ASCII values of 0000 to 1400. zzzz is in steps of one-tenth of a dB.
ANIUSB Response:	
< REP xx MATRIX_MXR_GAIN yyzzzz >	
Increment Matrix Mixer Gain	
Command String: < SET xx MATRIX_MXR_GAIN yy INC nn >	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10. Where nn is in steps of one-tenth of a dB.
ANIUSB Response: < REP xx MATRIX_MXR_GAIN yyzzzz >	Where zzzz takes on the ASCII values of 0000 to 1400. zzzz is in steps of one tenth of a dB.
Decrement Matrix Mixer Gain	
Command String: < SET xx MATRIX_MXR_GAIN yy DEC nn >	Where xx is input channel numbers 00-06. Where yy is output channel numbers 00 or 07-10. Where nn is in steps of one-tenth of a dB.
ANIUSB Response: < REP xx MATRIX_MXR_GAIN yyzzzz >	Where zzzz takes on the ASCII values of 0000 to 1400. zzzz is in steps of one tenth of a dB.
Get or Set Logic Mute	
Command String: < SET LOGIC_MUTE sts >	sts is the requested gate out signal for the channel: 1. Muted

	2. Unmuted	
ANIUSB Response:		
< REP LOGIC_MUTE sts >		
Enable or Disable Call Status		
Command String:	Enables or disables Call status feature.	
< GET ONHOOK_ENABLE >	state can be:	
< SET ONHOOK_ENABLE state >	1. ON 2. OFF	
	Z. OFF	
ANIUSB Response:		
< REP ONHOOK_ENABLE state >		
Report Call Status State		
Command String:		
< GET ONHOOK_STATE >		
	When Call status is enabled, state can be:	
	1. ONHOOK (not in a call)	
ANIUSB Response:	2. OFFHOOK (in a call)	
< REP ONHOOK_STATE state >	When Call status is disabled,	
	state	
	is OFFHOOK.	