4 Control

4.1 External Control Programer (ECP)

External control programming supports UDP and RS232, and the control protocol covers all control parameters of the processor, including parameter control, parameter acquisition and preset recall.

When using UDP control, the default port is 50000, which can be set via the host software in "Device Settings".

With RS232 control, the default baud rate is 115200, data bit 8, stop bit 1 and no parity bits. Again this can be set in the "Device Settings". The **interval between messages needs to be kept at least 150 ms for RS232 transmission**.

If the central control needs to reply, please turn on the central control reply switch in the "Device Settings".

4.2 ASCII control command

Preface:

Notes:

1、Because the starting bit of the channel is **0,** so it can be understood that **0-3** channels correspond to both **IN1-4** software display channels**, 0-3 is** only an example of the

actual number of channels equipment model shall prevail.

2、In the function on/off setting, **1** is on **0** is off; for example set:output#mute#0-3#1 The last **1** means "mute on".

4.2.1 Input volume control and acquisition

set:input#gain#0-3#1

(Set:input#gain#channel#to **1dB**) get:input#gain#0-

3 --> get:input#gain#0-3#1#1#1#1#1

(get:input#gain#channel#number)Return information Example:get:input#gain#0-3#1#1#1#1#1 (input **1-4** channel volume in order **1/1/1/1)**

4.2.2 Output volume control and acquisition

set:output#gain#0-3#1

get:output#gain#0-3 --> get:output#gain#0-3#1#1#1#1

4.2.3 Phantom power control and acquisition

set:input#phant#0-3#1

get:input#phant#0-3 --> get:input#phant#0-3#1#1#1#1

4.2.4 Control of input muting and acquisition

set:input#mute#0-3#1

get:input#mute#0-3 --> get:input#mute#0-3#1#1#1#1#1

4.2.5 Control of output muting and acquisition

set:output#mute#0-3#1

get:output#mute#0-3 -> get:output#mute#0-3#1#1#1#1

4.2.6 Sensitivity control and acquisition

set:input#sens#0-3#1**(for 3db, for second gear)**

get: input#sens#0-3-> get:input#sens#0-3#1#1#1#1

4.2.7 Control acquisition of matrices: multiple inputs controlling a single output, one input controlling multiple outputs

set:mixer#switch#0#0-3#1 (set input 1 to route output 1 and 4 on) set:mixer#switch#0-3#0#1 (set input 1 to 4 to route output 1 on) set:mixer#gain#0-3#0#1 (set input 1 to 4 to route output 1 gain 1db)

get:mixer#switch#0-3#0(0-3:input,0:output) -> get:mixer#switch#0-3#0#1#0#1#1

4.2.8 Scene recall and saving

scene:toggle#3 (scene call, pc show as scene 4) scene:save#3 (save scene)

4.2.9 Input level acquisition

get:input#level#0-3 (channel start - channel end) -> get:input#level#0-3 (channel start - channel end) #- 105.4#-102.5#-105.2#-104.8(dbfs)

4.2.10 Output level acquisition

get:output#level#0-3 (channel start - channel end) -> get:output#level#0-3 (channel start - channel end)#- 56.0#-40.8#-43.6#-46.4

4.2.11 Control of system silence and access to it

set:sysctl#mute#1(turn on system mute)

get:sysctl#mute -> get:sysctl#mute#1

4.2.12 Set and get the channel names of the inputs and outputs

set:input#name#0#1

get:input#name#0-3 -> get:input#name#0-3#IN1#IN2#IN3#IN4

4.2.13 Control of input and output inversion and acquisition

set:input#phase#0-3#1

set:output#phase#0-3#1

get:input#phase#0-3 -> get:input#phase#0-3#1#1#1#1#1

get:output#phase#0-3 -> get:output#phase#0-3#1#1#1#1

4.2.14 Control of input and output step size and acquisition

set:input#step#0-3#10

set:output#step#0-3#10

4.2.15 Input and output link control and acquisition

set:input#link#0-3#1

set:output#link#0-3#1

get:input#link#0-3 -> get:input#link#0-3#1#1#1#1#1

get:output#link#0-3 -> get:output#link#0-

3#1#1#1#1#1

4.2.16 Control of the signal generator and acquisition

set:input#type#0-3#1

get:input#type#0-3 -> get:input#type#0-3#1#1#1#1

4.2.17 Restore factory settings control

set:refactory

4.2.18 Scene reset control

set:rescene

4.2.19 Get to set an arbitrary scene name

set:scene#name#0-3#pre1(PC only supports UTF-8 encoding, send Chinese ANSII code will become messy) get:scene#name#0-3 (scene number: 0-15) ->

get:scene#name#0-3#pre1#pre1#pre1#pre1#pre1

4.2.20 Module name:input,output|mixer

item name:

(input)mute,gain,sens,phant,type,freq,name,phase,step,link,level

(output)mute,gain,name,step,link,level

(mixer)switch,gain

(scene)toggle,save,name

(sysctl)mute

(rescene)

(refactory)

4.2.21 Set command format.

set:module name#item name#start channel - end channel#parameter value e.g.

set:input#mute#0-3#0/1

4.2.22 Get command format

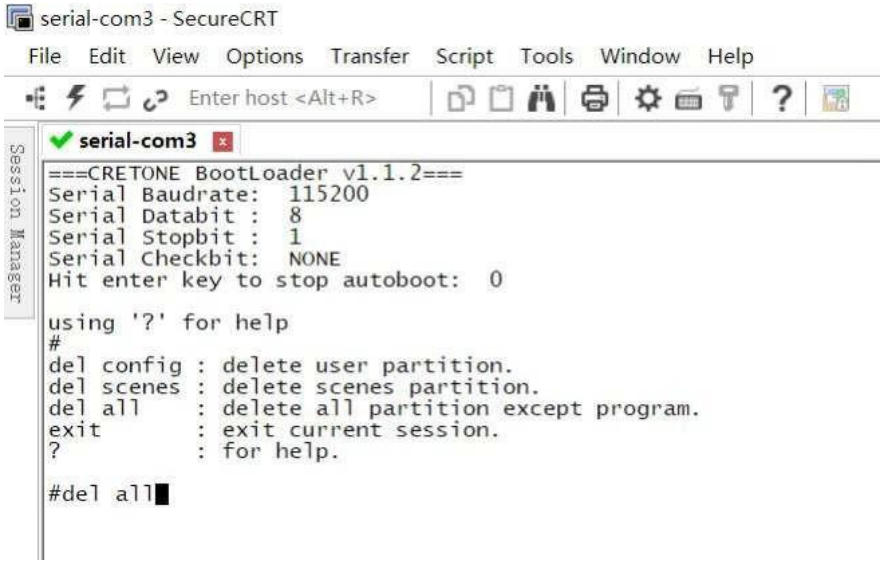
get:module name#item name#start channel - end channel e.g.

get:input#mute#0-3

5 Frequently Asked Questions

1. How do I restore the factory settings?

Connect to the PC via RS232 and run the serial software (SecureCRT is recommended). After connecting to the serial port, press and hold enter in the terminal screen to reboot the machine and enter the bootloader dialog box, as shown in the figure.

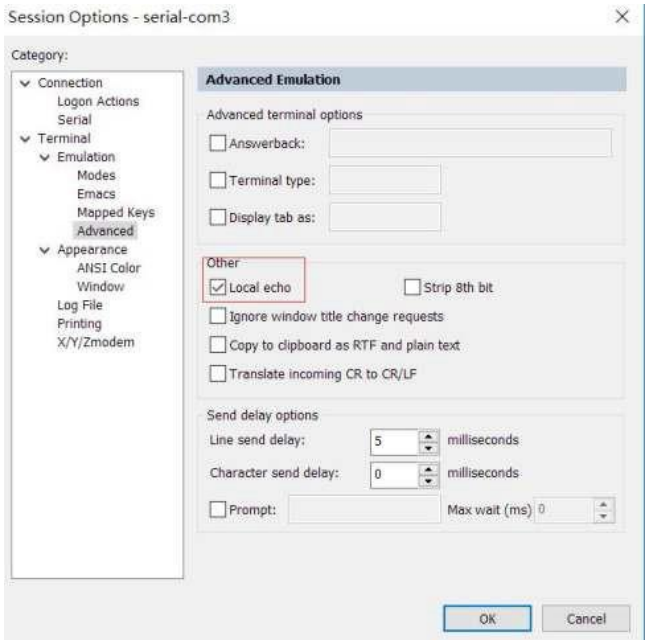


Command details:

del config: Deletes configuration information, such as IP addresses and other network configurations. The device reverts to the default IP: 169.254.20.227. del secens: Deletes the presets. all 16 presets of the DSP device revert to their default values.

del all: Deletes all partitions except programs.

Note: Some SecureCRT installations may not have an echo, please tick "Local echo" in Options->Session Options, as shown in the picture.


Session Options - serial-com3
Category:
Connection
Logon Actions
Serial
Terminal
Emulation
Modes
Emacs
Mapped Keys
Advanced
Appearance
ANSI Color
Window
Log File
Printing
X/Y/Zmodem
Advanced Emulation
Advanced terminal options
Answerback:
Terminal type:
Display tab as:
Other
Local echo
Strip 8th bit
Ignore window title change requests
Copy to clipboard as RTF and plain text
Translate incoming CR to CR/LF
Send delay options
Line send delay:
5
milliseconds
Character send delay:
0
milliseconds
Prompt:
Max wait (ms)
0
OK
Cancel