



4K/UHD 8x4 HDBaseT™ and HDMI Matrix Switcher

Application Programming Interface
0.1.40

AT-UHD-CLSO-840

Atlona Manuals
Switchers

Version Information

Version	Release Date	Notes
1	09/18	Initial release

Commands

The following tables provide an alphabetical list of commands available on the AT-UHD-CLSO-840. All commands are case-sensitive and must be entered as documented. If the command fails or is entered incorrectly, then the feedback is “Command FAILED”.

 **IMPORTANT:** Each command is terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

Command	Description
All#	Resets the matrix to a one-to-one routing state
AudioSrc	Sets the audio output channel for analog or digital audio
Blink	Enables or disables blinking of the POWER button on the front panel
Broadcast	Enables or disables broadcast mode
Clear	Erases the specified preset
CSpara	Sets the baud rate, data bits, parity bit, and stop bits for the serial port
EDIDMSet	Assigns the specified EDID to the desired input
EDIDOut	Saves the downstream EDID to the specified memory location
HDCPSet	Sets the HDCP reporting mode for the specified input
help	Displays the available list of commands
HTTPPort	Sets the HTTP listening port
InputBroadcast	Enables or disables broadcast mode
InputStatus	Displays the status for each input
IPAddUser	Adds a user for Telnet control
IPCFG	Displays the current network settings for the AT-UHD-CLSO-840
IPChangePass	Changes the password for the web GUI and Telnet sessions
IPDelUser	Deletes the specified Telnet user
IPDHCP	Enables or disables DHCP mode on the AT-UHD-CLSO-840
IPLogin	Enables or disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port for the AT-UHD-CLSO-840
IPQuit	Terminates the current TCP/IP session
IPStatic	Sets the static IP address, subnet mask, and gateway for the AT-UHD-CLSO-840
IPTimeout	Specifies the time interval of inactivity before the Telnet session is closed
Lock	Locks the buttons on the front panel
LockST	Displays the lock status of the AT-UHD-CLSO-840
MirrorAudio	Enables / disables mirroring for the specified audio and video outputs
Mreset	Resets the AT-UHD-CLSO-840 to factory-default settings
PWOFF	Places the AT-UHD-CLSO-840 in standby mode
PWON	Powers-on the matrix
PWSTA	Displays the current power state

Commands

Command	Description
Recall	Recalls the specified routing preset
RS232para	Sets the baud rate, data bits, stop bits, and parity for the RS-232 port
RS232zone	Send a command to the RS-232 device connected to the RS-232 port on the receiver
Save	Saves the current routing state to the specified preset
Status	Displays which inputs are connected to which outputs
TrigCEC	Triggers the stored CEC command
Type	Displays the model of the transmitter
Unlock	Unlocks the buttons on the front panel
Version	Displays the current firmware version of the AT-UHD-CLSO-840
VIN	Specifies the volume input level
VOUT	Specifies the volume input level
VOUTMute	Mutes the audio on the specified channel (zone)
x?\$	Enables / disables the specified output channel
x>All	Routes the specified input to all outputs
x?AVx?	Routes an input to the specified output(s)
x?Ax?	Routes the audio from a video input to the specified audio output

All#

Resets the matrix to the factory-default one-to-one routing state. This command only resets the input/output routing: Input 1 > Output 1, Input 2 > Output 2, etc. No other settings are affected.

Syntax

```
All#
```

This command does not require any parameters

Example

```
All#
```

Feedback

```
All#
```

AudioSrc

Specifies the audio type to be output on the output channel (HDMI 1, HDMI 2, HDBaseT 3, HDBaseT 4).

Syntax

```
AudioSrcX Y
```

Parameter	Description	Range
X	Output Channel	1 ... 4
Y	Audio Type	ana, dig

Example

```
AudioSrc2 ana
```

Feedback

```
AudioSrc2 ana
```

Blink

Enables or disables blinking of the **POWER** button on the front panel. When set to on, the **POWER** button will flash, alternating between red and blue, and can be used to physically identify the unit on a network. The **POWER** button will flash until the Blink off command is executed. on = enables blinking; off = disables blinking; sta = displays the current setting. The default setting is off.

Syntax

```
Blink X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
Blink on
```

Feedback

```
Blink on
```

Broadcast

Enables or disables broadcast mode. By default, broadcast mode is set to off. When set to on, changes in the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between web GUI and Telnet, set this feature off. on = enables broadcast mode; off = disables broadcast mode; sta = displays the current setting.

Syntax

Broadcast X

Parameter	Description	Range
X	Value	on, off, sta

Example

Broadcast on

Feedback

Broadcast on

Clear

Erases the specified preset.

Syntax

ClearX

Parameter	Description	Range
X	Preset	1 ... 5

Example

Clear2

Feedback

Clear2

CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the serial port. Use the sta argument to display the current serial port settings. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when executing this command.

Syntax

```
CSpara[W,X,Y,Z]
```

Parameter	Description	Range
W	Baud rate	2400, 4800, 9600, 19200, 38400, 57600, 115200
X	Data bits	7, 8
Y	Parity bit	None, Odd, Even
Z	Stop bits	1, 2

Example

```
CSpara[115200,8,0,1]
CSpara[sta]
```

Feedback

```
CSpara[115200,8,0,1]
CSpara [115200,8,0,1]
```

EDIDMSet

Assigns an EDID to the specified input. The EDID can be one of the internal pre-programmed EDID selections or a custom EDID that can be stored in one of the four memory locations. A brief description of each pre-programmed EDID is listed in the table below. For a detailed summary of each EDID, refer to the Appendix in the User Manual table. Use arguments save1 through save4 to store the EDID in any of four memory locations. To display the EDID assigned to an input, use the sta argument. Do not use a space between the command and the first parameter.

For the first parameter, inputs are represented as follows:

1 = HDMI IN 1
 2 = HDMI IN 2
 3 = VGA IN

4 = DP IN 4
 5 = HDMI IN 5 (receiver)

Syntax

```
EDIDMSetX Y
```

Parameter	Description	Range
X	Input	1 ... 5
Y	EDID	default, save1 ... save4, int1 ... int23, sta

Example

```
EDIDMSet3 int6
EDIDMSet3 sta
```

Feedback

```
EDIDMSet3 int6
EDIDMSet3 int6
```

EDIDOut

Save the EDID of the display (sink), connected to the receiver, to internal memory. The first parameter must be 1.

Syntax

```
EDIDOutX Y
```

Parameter	Description	Range
X	Output	1 (required)
Y	Memory location	save1 ... save4

Example

```
EDIDOut1 save2
```

Feedback

```
EDIDOut1 save2
```

HDCPSet

Set the HDCP reporting mode of the specified port. Some computers will send HDCP content if an HDCP-compliant display is detected. on = reports to the source device that the display (sink) is HDCP-compliant, off = reports to the source device that the display (sink) is not HDCP-compliant (HDCP content will not be sent), auto = uses the attributes of the display device to accept or not accept HDCP content. Setting this value to off does *not* decrypt HDCP content. Use the sta argument to display the current setting.

Syntax

```
HDCPSet X
```

Parameter	Description	Range
X	Value	on, off, auto, sta

Example

```
HDCPSet 1 on
```

Feedback

```
HDCPSet 1 on
```

help

Displays the list of available commands. To obtain help on a specific command, enter the **help** command followed by the name of the command.

Syntax

```
help [X]
```

Parameter	Description	Range
X	Command name (optional)	Command

Example

```
help
```

Feedback

Available cmds:

```
help
PWON
PWOFF
PWSTA
```

...

...

HTTPPort

Sets the HTTP listening port for the AT-UHD-CLSO-840.

Syntax

```
HTTPPort X
```

Parameter	Description	Range
X	Port	0 ... 65535

Example

```
HTTPPort 8080
```

Feedback

HTTPPort 8080

InputBroadcast

Enables or disables broadcast mode. The default setting is off.

Syntax

```
InputBroadcast X
```

Parameter	Description	Range
X	State	on, off, sta

Example

InputBroadcast on

Feedback

InputBroadcast on

InputStatus

Displays the status of each input as a set of five consecutive numbers between 0 and 1. Each number represent an input, from 1 to 5: **HDMI IN 1**, **HDMI IN 2**, **VGA IN**, **DP IN 4**, and **HDMI IN 5**, respectively. If a source is detected on the input, then a 1 will be displayed. Inputs with no source connected will display a 0.

Syntax

```
InputStatus
```

This command does not require any parameters

Example

InputStatus

Feedback

InputStatus 10010

IPAddUser

Adds a user for web GUI login and Telnet sessions. This command performs the same function as adding a user within the web GUI. Refer to User Manual for more information.

Syntax

```
IPAddUser X Y
```

Parameter	Description	Range
X	User name	20 characters (max)
Y	Password	20 characters (max)

Example

IPAddUser BigBoss b055man

Feedback

IPAddUser BigBoss b055man
TCP/IP user was added

IPCFG

Displays the current network settings for the AT-UHD-CLSO-840.

Syntax

```
IPCFG
```

This command does not require any parameters

Example

```
IPCFG
```

Feedback

MAC addr: B8:98:B0:03:1D:7C
 IP addr: 10.0.1.182
 Netmask: 255.255.255.0
 Gateway: 10.0.1.1
 Web Port: 80
 Telnet Port: 23

Send with TCP/IP 1:
 IP Addres: 192.168.1.10
 TCP Port: 23
 Listen UDP Port: 8
 Send with: TCP

Send with TCP/IP 2:
 IP Addres: 192.168.1.11
 TCP Port: 23
 Listen UDP Port: 18
 Send with: TCP

IPChangePass

Changes the password for the specified user.

Syntax

```
IPChangePass X
```

Parameter	Description	Range
W	Username	--
X	Old password	--
Y	New password	--
Z	Password confirmation	--

Example

```
IPChangePass root Atlona BoS5man
```

Feedback

IPChangePass root Atlona BoS5man

IPDelUser

Deletes the specified user. Deleted users will no longer be able to access the web GUI or initiate Telnet sessions. This command performs the same function as removing a user within the web GUI. Refer to the User Manual for more information.

Syntax

```
IPDelUser X
```

Parameter	Description	Range
X	User	User name

Example

IPDelUser Minion2

Feedback

IPDelUser Minion2
TCP/IP user was deleted

IPDHCP

Enables or disables DHCP mode on the AT-UHD-CLSO-840. on = DHCP mode ON; off = DHCP mode OFF; sta = displays the current setting. If this feature is disabled, then a static IP address must be specified. The default setting is DHCP = ON.

Syntax

```
IPDHCP X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPDHCP on

Feedback

IPDHCP on

IPLogin

Enables or disables the use of login credentials when initiating a Telnet session on the AT-UHD-CLSO-840. If this feature is set to on, then the AT-UHD-CLSO-840 will prompt for both the username and password. Use the same credentials as the web GUI. on = login credentials required; off = no login required. Use the sta argument to display the current setting. The default setting is on.

Syntax

```
IPLogin X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPLogin off

Feedback

IPLogin off

IPPort

Sets the TCP/IP listening port for the AT-UHD-CLSO-840.

Syntax

```
IPPort X
```

Parameter	Description	Range
X	Port	0 ... 65535, sta

Example

IPPort 230

Feedback

IPPort 230

IPQuit

Closes the current Telnet session.

Syntax

```
IPQuit
```

This command does not require any parameters

Example

IPQuit

Feedback

Connection lost...

IPStatic

Sets the static IP address, subnet mask, and gateway (router) address of the AT-HDVS-210U-TX-WP. Before using this command, DHCP must be disabled on the AT-HDVS-210U-TX-WP. Refer to the [IPDHCP](#) command for more information. Each argument must be entered in dot-decimal notation and separated by a space. The default static IP address of the AT-UHD-CLSO-840 is 192.168.1.254.

Syntax

```
IPStatic X Y Z
```

Parameter	Description	Range
X	IP address	0 ... 255 (per byte)
Y	Subnet mask	0 ... 255 (per byte)
Z	Gateway (router)	0 ... 255 (per byte)

Example

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

Feedback

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

IPTimeout

Specifies the time interval of inactivity before the TCP/IP session is terminated. When terminated, both the Telnet and web GUI session will be closed. The default setting is 300 seconds.

Syntax

```
IPTimeout X
```

Parameter	Description	Range
X	Interval (in seconds)	1 ... 60000

Example

```
IPTimeout 300
```

Feedback

```
IPTimeout 300
```

Lock

Locks the buttons on the front panel. This feature is useful when the unit is installed in a rack environment or other remote location, to prevent unauthorized tampering or accidental pressing of the front-panel buttons. Also refer to the [Unlock](#) command.

Syntax

```
Lock
```

This command does not require any parameters

Example

```
Lock
```

Feedback

```
Lock
```

LockST

Displays the current lock status.

Syntax

```
LockST
```

This command does not require any parameters

Example

```
LockST
```

Feedback

```
Unlock
```

MirrorAudio

Enables or disables mirroring for the specified audio and video outputs. Refer to the User Manual for more information on mirroring. Specify 0 for the second parameter to disabling mirroring.

Syntax

```
MirrorAudioX Y
```

Parameter	Description	Range
X	Audio Output	1 ... 4
Y	Video Output	0, Out 1 ... Out 4

Example

```
MirrorAudio2 Out3
```

Feedback

```
MirrorAudio2 Out3
```

Mreset

Resets the AT-UHD-CLSO-840 to factory-default settings.

Syntax

```
MReset
```

This command does not require any parameters

Example

```
Mreset
```

Feedback

```
Mreset
```

PWOFF

Executing this command will power-off the AT-JUNO-451. Use the PWON command to power-on the unit.

Syntax

```
PWOFF
```

This command does not require any parameters

Example

```
PWOFF
```

Feedback

```
PWOFF
```

PWON

Executing this command will power-on the AT-JUNO-451. Use the PWOFF command to power-off the unit.

Syntax

```
PWON
```

This command does not require any parameters

Example

```
PWON
```

Feedback

```
PWON
```

PWSTA

Displays the current power state of the AT-JUNO-451.

Syntax

```
PWSTA
```

This command does not require any parameters

Example

```
PWSTA
```

Feedback

```
PWON
```

Recall

Loads the specified routing preset.

Syntax

```
Recall
```

Parameter	Description	Range
X	Preset	1 ... 5

Example

```
Recall2
```

Feedback

```
Recall2
```

RS232para

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232** port on the AT-UHD-CLSO-840. Each argument must be separated by a comma; no spaces are permitted. Brackets must be included when typing this command.

Syntax

```
RS232paraV[W,X,Y,Z]
```

Parameter	Description	Range
V	Zone	1 ... 5
W	Baud rate	2400, 9600, 19200, 38400, 56000, 57600, 115200
X	Data bits	8, 9
Y	Parity bit	0 (None), 1 (Odd), 2 (Even)
Z	Stop bits	1, 2

Example

RS232para1[115200,8,0,1]

Feedback

RS232para1[115200,8,0,1]

RS232zone

Sends commands to the connected display. Refer to the User Manual of the display device for a list of available commands. Brackets must be used when specifying the command argument. The command line must not contain any spaces.

Syntax

```
RS232zone[X][Y]
```

Parameter	Description	Range
X	Output port (zone)	1, 2
Y	Command	String

Example

RS232zone1[command]

Feedback

RS232zone1[command]

Save

Saves the current routing state to the specified preset.

Syntax

```
Save
```

Parameter	Description	Range
X	Preset	1 ... 5

Example

```
Save2
```

Feedback

```
Save2
```

Status

Displays the current routing status for each A/V and audio port.

Syntax

```
Status
```

This command does not require any parameters

Example

```
Status
```

Feedback

```
x1Avx1,x2Avx2,x3Avx3,x4Avx4,x1Ax1,x3Ax2,x3Ax3,x4Ax4
```

TrigCEC

Sends the specified command to the display using CEC. The output must always be specified and set to the value of 1. Do not add a space between the command and the first argument.

Syntax

```
TrigCECX Y
```

Parameter	Description	Range
X	Zone	1
Y	Power state	on, off

Example

```
TrigCEC1 on
```

Feedback

```
TrigCEC1 on
```

Type

Displays the model information of the AT-UHD-CLSO-840. The full argument may be specified to display the host name and firmware version. This argument is optional.

Syntax

Type X

Parameter	Description	Range
X	Information (optional)	full

Example

Type

Feedback

AT-UHD-CLSO-840

Unlock

Unlocks the buttons on the front panel. Also refer to the [Lock](#) command.

Syntax

Lock

This command does not require any parameters

Example

Lock

Feedback

Lock

Version

Displays the current version of firmware.

Syntax

Version

This command does not require any parameters

Example

Version

Feedback

Firmware 0.1.55

VIN

Sets the input volume, in decibels, for the specified input. Values for parameter Y can be specified numerically or can be incremental/decremental using the + or - character.

Syntax

```
VINX Y
```

Parameter	Description	Range
X	Input	1 ... 4
Y	Value	-10 ... 10, +, -

Example

```
VIN1 2
```

Feedback

```
VIN1 2
```

VOUT

Sets the output channel volume, in decibels. Values for parameter Y can be specified numerically or can be incremental/decremental using the + or - character.

Syntax

```
VOUTX Y
```

Parameter	Description	Range
X	Output	1 ... 4
Y	Value	-79 ... 15, +, -

Example

```
VOUT2 +
```

Feedback

```
VOUT2 -9
```

VOUTMute

Controls volume muting for the specified audio channel (zone). Use the sta argument to display the current muting state for the specified zone.

Syntax

```
VOUTMuteX Y
```

Parameter	Description	Range
X	Zone	1 ... 4
Y	State	off, on, sta

Example

VOUTMute2 on

Feedback

VOUTMute2 on

x?\$

Enables or disables the specified output channel. Use the sta argument to display the current state.

Syntax

```
xX$ Y
```

Parameter	Description	Range
X	Channel	1 ... 4
Y	State	off, on, sta

Example

x3\$ off

Feedback

x3\$ off

x?All

Routes the specified input to all outputs.

Syntax

```
xXAll
```

Parameter	Description	Range
X	Channel	1 ... 4

Example

```
x2All
```

Feedback

```
x2All
```

x?AVx?

Routes the specified input to the specified output. Multiple outputs may be specified. If multiple outputs are specified, use the comma delimiter with a spaces (as shown in the example below).

Syntax

```
xXAVxY
```

Parameter	Description	Range
X	Input	1 ... 8
Y	Output	1 ... 4

Example

```
x3AVx2, x4, x7
```

Feedback

```
x3AVx2, x4, x7
```

x?Ax?

Routes the audio from the specified video input to the specified audio output.

Syntax

```
xXAxY
```

Parameter	Description	Range
X	Video Input	1 ... 8
Y	Video Output	1 ... 4

Example

```
x6Ax2
```

Feedback

```
x6AVx2
```



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