



4K / UHD HDMI to HDBaseT Distribution Amplifier

Application Programming Interface

AT-UHD-CAT-2 AT-UHD-CAT-4
AT-UHD-CAT-4ED AT-UHD-CAT-8

Atlona Manuals
Distribution Amplifiers

Version Information

Version	Release Date	Notes
1	Nov 2018	Initial release

Commands

The following tables provide an alphabetical list of commands available for AT-UHD-CAT-2, AT-UHD-CAT-4, AT-UHD-CAT-4ED, and AT-UHD-CAT-8. Commands are case-sensitive. If the command fails or is entered incorrectly, then the feedback is “Command FAILED”. Commands can be sent using RS-232 or Telnet. There should be a 500 millisecond delay between each command sent to the unit.

Default port for Telnet is 23.



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
BCPW	Sets the auto-switching mode
Blink	Enables or disables blinking of the POWER LED indicator on the front panel
Broadcast	Enables or disables broadcast mode
CSpara	Sets the baud rate, data bits, parity bit, and stop bits for the serial port
EDIDCopy	Saves the downstream EDID to the specified internal memory location on the unit
EDIDMSet	Assigns the specified EDID to the HDMI IN port
EDIDSW	Sets the EDID mode
HDCPSet	Set the HDCP reporting mode of the specified HDMI input port
help	Displays the list of available commands
IPAddUser	Adds a user for Telnet and webGUI access
IPCFG	Displays the current network settings for the unit
IPDelUser	Deletes the specified user
IPDHCP	Enables or disables DHCP mode on the unit
IPLogin	Enables or disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port for the unit
IPQuit	Closes the current Telnet session
IPStatic	Sets the static IP address, subnet mask, and gateway for the unit
IPTimeout	Sets the time interval of inactivity before the Telnet session is terminated
Lock	Locks the buttons on the front panel
Mreset	Resets the unit to factory-default settings
PWOFF	Execute this command to power-off the unit
PWON	Execute this command to power-on the unit
PWSTA	Displays the power state of the unit
System	Displays the status of the unit
TrigCEC	Triggers the specified command
Type	Displays the model of the unit
Unlock	Unlocks the buttons on the front panel
Version	Displays the current firmware version of the unit

BCPW

Sets the function of the **POWER** button on the front panel. Refer to the table below for a description of each argument. Use the `sta` argument to display the current setting.

Syntax

```
BCPW X
```

Parameter	Description	Range
X	Mode	local, cec, both, sta

Example
BCPW local

Feedback
BCPW local

Mode	Description
local	Pressing the POWER button will toggle the AT-UHD-CAT-XX between standby mode and normal operating mode.
cec	When a sink device (display) is connected to the AT-UHD-CAT-XX, pressing the POWER button will toggle the power state of the display using the CEC protocol. <i>The power state of the AT-UHD-CAT-XX is unaffected.</i> Power-on and power-off commands are sent over both the HDBaseT OUT and HDMI OUT ports
both	Pressing the POWER button will toggle the power state of <i>both</i> the AT-UHD-CAT-XX and any sink devices that are connected to the AT-UHD-CAT-XX, using the CEC protocol. Power-on and power-off commands are sent over both the HDBaseT OUT and HDMI OUT ports.

Blink

Enables or disables blinking of the **POWER** LED indicator on the front panel. When set to on, the **POWER** LED indicator button will flash, alternating between blue and red, and can be used to physically identify the unit on a network. The **POWER** LED indicator will flash until the Blink off command is executed. `on` = enables blinking; `off` = disables blinking. Use the `sta` argument to display 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 ON. When set to ON, any system changes will be broadcast to the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between the web GUI and Telnet, set this feature to OFF. Command queries such as #IPCFG and #Type will only return information to the requester. Use the sta argument to display the current setting.

Syntax

```
Broadcast X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
Broadcast on
```

Feedback

```
Broadcast on
```

CSpa

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

```
CSpa[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

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

Feedback

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

EDIDCopy

Copies the downstream EDID to the **HDMI IN** port. If no sink device is connected to the HDMI OUT port, then “Output 1 was no connected” will be returned.

Syntax

```
EDIDCopy
```

This command does not require any parameters

Example
EDIDCopy

Feedback
EDIDCopy

EDIDMSet

Assigns an EDID to the **HDMI IN** port. A brief description of each preprogrammed EDID is listed in the table below. To display the EDID assigned to an input, use the sta argument.

Syntax

```
EDIDMSetX
```

Parameter	Description	Range
X	EDID preset	0 ... 16, sta

Example
EDIDMSet2

Feedback
EDIDMSet2

EDID	
STD	ATL 1280x800 RGB 2CH
ATL 1080P 2CH	ATL 1366x768 RGB 2CH
ATL 1080P Multi CH	ATL 1080P DVI
ATL 1080P DD	ATL 1280x800 RGB DVI
ATL 1080P 3D 2CH	ATL 3840x2160@30 2CH
ATL 1080P 3D Multi CH	ATL 3840x2160@30 Multi CH
ATL 1080P 3D DD	ATL 3840x2160@60 2CH
ATL 720P 2CH	ATL 3840x2160@60 Multi CH
ATL 720P DD	

EDIDSW

Sets the EDID mode. int = internal EDID (use the EDIDMSet command to select the EDID), learn = fetches the downstream EDID and copies it to the HDMI IN port. Use the sta argument to display the current setting.

Syntax

```
EDIDSWX
```

Parameter	Description	Range
X	Mode	int, learn, sta

Example

```
EDIDSWint
```

Feedback

```
EDIDSWint
```

HDCPSet

Set the HDCP reporting mode of the **HDMI** input port. Some computers will send HDCP content if an HDCP-compliant display is detected. Setting this value to off, will force the computer to ignore detection of HDCP-compliant displays. Disabling this feature will *not* decrypt HDCP content. on = enables HDCP detection; off = disables HDCP detection; sta = displays the current setting. No space should exist between the first argument and the command.

Syntax

```
HDCPSet X
```

Parameter	Description	Range
X	Reporting status	on, off, sta

Example

```
HDCPSet off
```

Feedback

```
HDCPSet off
```

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

```
Command List
```

```
-----
Help
IPCFG
IPDHCP
...
...
```

IPAddUser

Adds a user for Telnet control. This command performs the same function as adding a user within the **Config** page of the web GUI. Refer to the 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 unit.

Syntax

```
IPCFG
```

This command does not require any parameters

Example

```
IPCFG
```

Feedback

```
Mac Addr:  B8:98:B0:05:DF:F7
IP Addr:   10.0.1.101
Netmask:   255.255.255.0
Gateway:   10.0.1.1
Telnet Port: 23
HTTP Port: 80
```

IPDelUser

Deletes the specified TCP/IP user. This command performs the same function as removing a user within the **Config** page of the web GUI. Refer to the User Manual for more information.

Syntax

```
IPDelUser X
```

Parameter	Description	Range
X	User	User name

Example

```
IPDelUser MinionTwo
```

Feedback

```
IPDelUser MinionTwo
TCP/IP user was deleted
```

IPDHCP

Enables or disables DHCP mode on the unit. on = enables DHCP mode; off = disables DHCP mode; sta = displays the current setting. If this feature is disabled, then a static IP address must be specified for the unit. Refer to the **IPQuit** command for more information.

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 starting a Telnet session on the unit. If this feature is set to on, then the unit 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.

Syntax

```
IPLogin X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
IPLogin off
```

Feedback

```
IPLogin off
```

IPPort

Sets the Telnet listening port for the unit. Use the sta argument to display the current setting.

Syntax

```
IPPort X
```

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

Example

```
IPPort 23
```

Feedback

```
IPPort 23
```

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 unit. Before using this command, DHCP must be disabled on the unit. 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 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 Telnet session is automatically closed.

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
```

Mreset

Resets the unit 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-UHD-CAT-XX. 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-UHD-CAT-XX. 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-UHD-CAT-XX.

Syntax

```
PWSTA
```

This command does not require any parameters

Example

```
PWSTA
```

Feedback

```
PWON
```

System

Displays the status of the unit.

Syntax

```
System X
```

Parameter	Description	Range
X	Format	sta, dev

Example

```
System sta
```

Feedback

```
Model: AT-UHD-CAT-2
MAC Addr: b8-98-b0-00-01-d2
Address Type: DHCP
IP: 10.0.1.192
Netmask: 255.255.255.0
Gateway: 10.0.1.1
HTTP Port: 80
Telnet Port: 23
Firmware: 0.6.05
On/Up Time (dd HH:mm:ss): 00 00:28:37
Power Status: PWON
```

TrigCEC

Sends the specified command to the display using CEC. The first parameter is the zone output: 1 = **HDBaseT OUT 1**, 2 = **HDBaseT OUT 2**, 3 = **HDMI OUT**, all = all outputs. Note that CEC is an HDMI protocol. Therefore, HDBaseT outputs will trigger CEC commands from the connected receiver. Do not add a space between the command and the first argument.

Syntax

```
TrigCECX Y
```

Parameter	Description	Range
X	Zone	1 ... 3, all
Y	Command	on, off

Example

```
TrigCEC1 on
```

Feedback

```
TrigCEC1 on
```

Type

Displays the model information of the unit.

Syntax

Type

This command does not require any parameters

Example

Type

Feedback

AT-UHD-CAT-4ED

Unlock

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

Syntax

Unlock

This command does not require any parameters

Example

Unlock

Feedback

Unlock

Version

Displays the current firmware version of the unit.

Syntax

Version

This command does not require any parameters

Example

Version

Feedback

1.0.00

