

4K / UHD Wallplate HDBaseT Transmitter for HDMI and USB-C with USB Hub

Application Programming Interface 1.0

AT-OME-SW21-TX-WPC Atlona Manuals Switchers



Version Information

Version	Release Date	Notes
1	Mar 2020	Initial release



Introduction

General

This document provides an alphabetical list of commands available for AT-OME-SW21-TX-WPC. 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, Telnet, or TCP. There should be a 500 millisecond delay between each command sent to the unit. The default port for Telnet is 23. TCP ports are 9000 and 9001.



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

Ports

This product can communicate directly with local and remote RS-232 (over HDBaseT) ports using a direct TCP socket connection. The default port assignment is from left-to-right, viewed from the rear panel. Refer to the table below for the port assignment for this product. For ports connected to RS-232 interfaces, no additional payload is required to transmit data to the device. All data sent to the respective TCP port will be sent bit-for-bit to the RS-232 output. Note that if feedback is required from the RS-232 device, the TCP socket must be kept open. This product does not provide buffer or queuing registers. Therefore, any data from the RS-232 port that is received while the TCP socket connection is closed, will be lost.

Port	Description
9000	MCU (similar to Telnet)
9001	HDBaseT RS-232 port

Example:

With the device IP address of 192.168.1.100 and a PJLINK projector connected to the RS-232 of the HDBaseT output.

1. Open a TCP socket to 192.168.1.100:9001 and send the following command string:

%1POWR 1\x0D

2. The projector will respond with the following, using the same socket connection:

\$1POWR=OK\x0D



Commands

Command	Description
AutoSW	Enables or disables auto switching between input ports
CommaWait	Enables or disables a five second delay when using commas in the command line
DispBtn	Simulates pressing the DISPLAY button on the front panel
Display	Powers-on or power-off the connected display
HDMIAud	Enables or disables audio output
help	Displays a list of available commands
InputStatus	Displays the status for each input
IPCFG	Displays IP address configuration
IPDHCP	Turns DHCP on / off
IPStatic	Sets a static IP address
Mreset	Sets the unit back to default settings
RS232zone	Triggers the unit to send the RS-232 command to the display connected to the HDBaseT receiver's RS-232 port
Status	Displays the routing state of the unit
System	Displays system information
Туре	Displays the model of the unit
USBHostLogic	Sets the USB mode for the AT-OME-SW21-TX-WPC
UsbRoute	Sets the USB Host routing state
Version	Displays the current firmware version of the unit
xYAVx1	Switches the specified input to the specified output



AutoSW

Enables or disables auto switching between input ports. Use the sta argument to display the current setting.

Syntax		
AutoSW X		

Parameter	Description	Range
Х	State	on, off, sta
Example AutoSW on		Feedback AutoSW on

CommaWait

The comma is frequently used to separate multiple commands on the command line. However, the client may require time to execute a specific command, before the next command is executed. Enabling this command will assign a five second delay to any comma delimiters, found within the command line.

Syntax	
CommaWait X	

Parameter	Description	Range
Х	State	on, off, sta
Example CommaWait on		Feedback CommaWait on

DispBtn

This command emulates pressing the **DISPLAY** button on the front panel. This command can perform different functions, depending on which value it is assigned.

Syntax	
DispBtn X	

	Parameter	Description	Range
	Х	State	on, off, tog, sta
Е	xample		Feedback

DispBtn on

Feedback DispBtn on



Display

This command powers-on or powers-off the connected display.

Syntax		
Display X		
Parameter	Description	Range
Х	State	on, off, sta
Example Display on		Feedback Display on

HDMIAud

Enables or disables the audio output on the HDMI port. on = enables HDMI audio output; off = disables HDMI audio output. Use the sta argument to return the current HDMI audio output state

Syntax
HDMIAud

Parameter	Description	Range
Х	State	on, off, sta

Example HDMIAud off Feedback HDMIAud 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
Х	Command name (optional)	Command
Example		Feedback
help		help
		IPCFG
		IPDHCP
		IPStatic
		Version

InputStatus

Displays the status of the inputs as either a 0 or 1. If a source is detected on the input, then a 1 will be displayed. Inputs with no source connected will display a 0.



This command does not require any parameters

Example InputStatus Feedback InputStatus 01

IPCFG

Displays the current network settings for the unit.

Syntax

IPCFG

This command does not require any parameters

Example IPCFG

Feedback	
IP Addr:	10.0.1.101
Netmask:	255.255.255.0
Gateway:	10.0.1.1
Telnet Port:	23



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 IPStatic command for more information.

Syntax		
IPDHCP X		

Parameter	Description	Range	
Х	Value	on, off, sta	
Example IPDHCP on		Feedback IPDHCP on	

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
Х	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

Mreset

Resets the unit to factory-default settings.

Syntax			
Mreset			

This command does not require any parameters

Example Mreset Feedback Mreset



RS232zone

Sends commands to the HDBaseT device. 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. Since the AT-OME-SW21-TX-WPC has only one HDBaseT output (zone), "1" must be specified as the first argument. Note that this command is deprecated and for legacy use. It is recommended to use the TCP socket functionality mentioned above.

Syntax	
RS232zone[X]	

Paramet	ter Description	Range
Х	Command	String
Example		Feedback

RS232zone1[test]

dback RS232zone1[test]

Status

Displays which input is routed to which output. Refer to the xYAVxZ command for more information.

Syntax			
Status			

This command does not require any parameters

Example Status

Feedback x1AVx1



System

Displays information about the AT-OME-SW21-TX-WPC. The sta argument must be specified.

Syntax	
System X	

Parameter	Description	Range
Х	Constant	sta
Example System sta		Feedback Model: AT-OME-SW21-TX-WPC MAC Addr: b8:98:b0:00:03:24 Address Type: DHCP IP Addr: 10.20.100.196 Netmask: 255.255.255.0 Gateway: 10.20.100.2 Http Port: 80

Telnet Port: 23 Firmware: 1.0

On/Up Time <dd HH:mm:ss>: 0 1:29:15

Hostname: SW21-WPC-000324

Туре

Displays the model information of the unit.



This command does not require any parameters

Example Type Feedback AT-OME-SW21-TX-WPC



USBHostLogic

Sets the USB mode for the AT-OME-SW21-TX-WPC. Use the sta argument to display the current setting.

Syntax
USBHostLogicX Y

Parameter	Description	Range
Х	USB Port	1
Y	Mode	follow usb, follow video, manual, sta

Example USBHostLogic1 follow video Feedback USBHostLogic1 follow video

UsbRoute

Sets the routing state of the USB Host port. The second argument controls which port is used: 1 = route to USB port; 2 = route to USB-C port; 3 = route to remote USB port. Use the sta argument to display the current setting.

Synta	ıx		
UsbF	louteX Y		

Parameter	Description	Range
Х	USB Port	1
Y	Routing	1 3

Example UsbRoute1 2 Feedback UsbHost1 2



Commands

Version

Displays the current firmware version of the unit.

Syntax		
Version X		
Parameter	Description	Range
Х	Chip	mcu, vstx, vsrx
Example Version MCU		Feedback 1.0.22

xYAVx1

Switches the specified input to the specified output. The first argument references the input: 1 = HDMI, 2 = USB-C. For example, to display the USB-C input on the output, use: x2AVx1.

Syntax		
xYAVx1		

Parameter	Description	Range
Υ	Input	1, 2

Example x2AVx1 Feedback x2AVx1





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