Introduction

The Atlona **AT-DISP-CTRL** is a compact display controller, designed for small meeting spaces and huddle rooms. The DISP-CTRL detects connection of a source device with an active signal, and then automatically sends a control command to power up a display. Similarly, when the device is disconnected, the DISP-CTRL delivers a command to power down the display. The DISP-CTRL can be configured to deliver pre-stored or user-programmed display control commands through TCP/IP, RS-232, IR, or CEC. Additionally, this controller includes EDID and HDCP management features, and can be powered locally or through Power over Ethernet (PoE). The DISP-CTRL is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps.

Applications

- **Huddle rooms and open meeting spaces**
  The DISP-CTRL provides a simple automation solution for BYOD connectivity in any gathering area with a display installed, but no other AV equipment.

- **AV system upgrades**
  The DISP-CTRL is ideal as an easy problem-solver for existing or legacy AV installations to provide automatic display control capabilities, without the need for a dedicated control system.

Key Features

Simple, automated display control

• Automatically changes display power state based on HDMI device connection or disconnection. Control signals to display are transmitted via IP, RS-232, IR, or CEC.

• Enables display, volume control, and input selection. Avoids the need for a handheld remote control which may be misplaced or non-functional.

Programmable display control modes

• A display can be powered off after a specified period of inactivity (no video signal detected), or after a device has been disconnected.

• Adjustable lamp cooldown mode also available to avoid prematurely powering up a projector after shutdown.

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

• Ideal for new and emerging 4K/UHD and HDR-capable sources and displays. Compatible with 4K HDR10 and Dolby® Vision™ @ 60 Hz.

• Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

HDMI input and pass-through ports with locking terminals

• Ideal for Atlona LinkConnect™ cables with locking HDMI connectors.

• Ensures fully secure cable connections and failsafe image display.

Local or PoE (Power over Ethernet) powering

• Industry standard IEEE 802.3af PoE can be supplied by a network switch or PoE injector. A power supply is also included.

• PoE allows convenient installation at a table or any other location, without the need for local AC power.

Intuitive GUI-based configuration using integrated web server

• Offers menu-based configuration of device settings, display device driver selection, and the ability to program control commands.

• Comprehensive selection of display drivers from the Velocity™ Control System driver database.

Dual Ethernet ports and integrated network switch

• Allows connection to a display for IP control, plus a LAN or direct web GUI access.

• Built-in network switch simplifies system integration and operation.

Specifications

Video	
Signal	HDMI
Copy Protection	HDCP 2.2
TMDS Clock	600 MHz
UHD/HD/SD	4096x2160 @ 60/30/25/24 Hz 3840×2160 @ 60/30/25/24 Hz 1920x1080p @ 60/59.9/50/30/ 29.97/25/24/23.98 Hz 1920x1080i @ 60/59.94/50 Hz 1280x720p @ 60/59.94/50 Hz 720x576p @ 50 Hz 720x576i @ 50 Hz 640x480p @ 60/59.96 Hz 640x480i @ 60 Hz
VESA[4]	2560×1600 @ 60 Hz 2048×1536 @ 60 Hz 1920×1200 @ 60 Hz 1680×1050 @ 60 Hz 1600×1200 @ 60 Hz 1440×900 @ 60 Hz 1400×1050 @ 60 Hz 1280×1024 @ 60 Hz 1280×800 @ 60 Hz 1366×768 @ 60 Hz 1360×768 @ 60 Hz 1152×864 @ 60 Hz 1024×768 @ 60 Hz 800×600 @ 60 Hz 640×480 @ 60 Hz
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDR	HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60Hz

Audio			
Pass-through	LPCM 2.0 LPCM 5.1 LPCM 7.1	Dolby® Digital Dolby Digital Plus Dolby TrueHD Dolby Atmos®	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		
Bit Depth	Up to 24-bit		

Protocols	
Management	HTTP, Telnet
Addressing	DHCP, static

Control	
RS-232	Device control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to network
IP	Device control and configuration
IR	Device control and configuration
CEC	Device control and configuration

Connectors	
HDMI IN	1 - Type A, 19-pin, female
HDMI OUT	1 - RJ45, 10/100/1000 Mbps
LAN[1]	2 - RJ45, 10/100 Mbps
RS-232 / IR OUT	1 - Captive screw, 5-pin
FW / DC 5V	1 - mini USB

Indicators and Controls	
POWER	1 - LED, green
SOURCE	1 - LED, yellow
IP MODE / RESET	2 - LED, green
IP MODE, RESET	2 - Momentary, tact type

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN / HDMI OUT	15	5	30	10

Power		
PoE	IEEE 802.3af	
Consumption	5.32 W	
BTU/h	18.1	
External Power Supply (optional)	5 V, 500 mA (USB)	

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +122	0 to +50
Storage Temperature	-4 to +140 °F	-20 to +60 °C
Operating Humidity (RH)	20% to 95%, non-condensing	

Chassis		
Dimensions (H x W x D)	1.02 in x 4.29 in x 3.50 in 26 mm x 109 mm x 89 mm	
Weight	0.65 lbs 0.30 kg	

Certification		
Device	CE, FCC, CB, RoHS	
Supply	CE, FCC, cULus, CB, RCM, RoHS	

Compliance		
NDAA-899	Yes	
TAA	Yes	

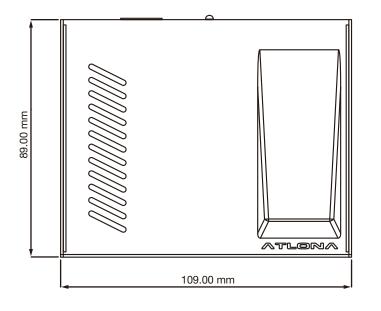| Warranty		
Device	3 years	

Footnotes

(1) Maximum distance per hop is 330 feet (100 meters), depending upon network configuration.

Accessories

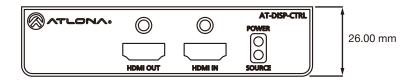| Description	SKU
LinkConnect HDMI to HDMI Cable	AT-LC-H2H-1M / 2M / 3M
LinkConnect Mini DisplayPort to HDMI Cable	AT-LC-MDP2H-1M / 2M / 3M

Drawings

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