



### 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<sup>™</sup> 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<sup>™</sup> 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

Signal    HDMI      Copy Protection    HDCP 2.2      TMDS Clock    600 MHz      UHD/HD/SD    4096x2160 @ 60/30/25/24 Hz    720x576 @ 50 Hz      3840x-2160 @ 60/30/25/24 Hz    720x576 @ 50 Hz      1920x1080 @ 60/39.9/50/30/    640x480 @ 60 Hz      1920x1080 @ 60/59.9/50/30/    640x480 @ 60 Hz      1920x1080 @ 60/59.9/50 Hz    640x480 @ 60 Hz      1920x1080 @ 60 Hz    1280x709.00 @ 60 Hz      1920x1080 @ 60 Hz    1280x709.00 @ 60 Hz      1920x1080 @ 60 Hz    1366x768 @ 60 Hz      1920x1080 @ 60 Hz    1152x64 @ 60 Hz      1920x1200 @ 60 Hz    1162x64 & 60 Hz      1920x1200 @ 60 Hz    1024x768 @ 60 Hz      1060x1050 @ 60 Hz    1024x768 @ 60 Hz      1060x1050 @ 60 Hz    800x600 @ 60 Hz      1080x1050 @ 60 Hz    604x480 @ 60 Hz      Color Space    YUV, RGB      Chroma Subsampling    4.44, 4.22, 4.2.0      Color Space    YUV, RGB      Doby TrueHD    Doby TrueHD      Doby TrueHD    Doby TrueHD      Doby TrueHD    Doby TrueHD      Doby TrueHD    Doby True	Video				
TMDS Clock    600 MHz      UHD/HD/SD    4096x2160 @ 60/30/25/24 Hz    720x5760 @ 50 Hz      3840x2160 @ 60/59.9/50/30/    640x480p @ 60/59.9 4/50      29.97/25/24/23 8Hz    640x480p @ 60/59.94/50 Hz      1290x1080 @ 60/59.94/50 Hz    1280x800 @ 60 Hz      1280x720p @ 60/59.94/50 Hz    1280x800 @ 60 Hz      1280x7200 @ 60 Hz    1366x768 @ 60 Hz      1280x1050 @ 60 Hz    1366x768 @ 60 Hz      1920x1200 @ 60 Hz    1360x768 @ 60 Hz      1920x1200 @ 60 Hz    1360x768 @ 60 Hz      1920x1200 @ 60 Hz    1360x768 @ 60 Hz      1920x1200 @ 60 Hz    1300x768 @ 60 Hz      1920x1200 @ 60 Hz    600 Kz      1920x1200 @ 60 Hz    600 Kz      1920x1200 @ 60 Hz    600 Kz      1020x720 @ 60 Hz    600 Kz      1020x720 @ 60 Hz    600 Kz      1280x1020 @ 60 Hz    600 Kz      1280x1020 @ 60 Hz    600 Kz      Color Space    YUV, RGB      Chroma Subsampling    4:4:4, 4:2;2, 4:2:0      Color Depth    8-bit, 1-bit      HDR    HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60Hz	Signal	HDMI			
UHD/HD/SD    4096x2160 @ 60/30/25/24 Hz 3840x2160 @ 60/30/25/24 Hz 1920x1060 @ 60/30/25/24 Hz 1920x1060 @ 60/30/25/24 Hz 1920x1060 @ 60/39,94/50 Hz 1920x1000 @ 60/39,94/50 Hz    720x576 @ 50 Hz 640x480 @ 60 Hz 1920x1000 @ 60/39,94/50 Hz      VESA! <sup>4</sup> 2560x1600 @ 60/39,94/50 Hz 1920x1000 @ 60/39,94/50 Hz    1280x720 @ 60/59,94/50 Hz 1920x1200 @ 60 Hz 1152x46 @ 60 Hz 1200x1200 @ 60 Hz 1200x1200 @ 60 Hz 1200x1200 @ 60 Hz 1200x1200 @ 60 Hz 1200x120 @ 60 Hz 1200x10 & Hz 1200x120 & Hz 1200x120 & Hz 1200x120 & Hz 1200x120 & Hz	Copy Protection	HDCP 2.2			
3840x2160 @ 60/30/25/24 Hz    720x576i @ 50 Hz      1920x10800 @ 60/59.96 Hz    640x480 @ 60/59.96 Hz      29.97/25/24/23.98 Hz    640x480 @ 60 Hz      1920x1080i @ 60/59.94/50 Hz    1280x800 @ 60 Hz      1280x7020 @ 60/59.94/50 Hz    1280x800 @ 60 Hz      1280x7020 @ 60/59.94/50 Hz    1366x768 @ 60 Hz      2048x1536 @ 60 Hz    1366x768 @ 60 Hz      1920x1020 @ 60 Hz    1366x768 @ 60 Hz      1600x1020 @ 60 Hz    1024x768 @ 60 Hz      1600x1020 @ 60 Hz    640x480 @ 60 Hz      1600x1050 @ 60 Hz    640x480 @ 60 Hz      1600x1050 @ 60 Hz    640x480 @ 60 Hz      1600x1050 @ 60 Hz    640x480 @ 60 Hz      1280x1024 @ 60 Hz    640x480 @ 60 Hz      1200x1024 @ 60 Hz    010by Pigital      D18    D15*NE      Color Space    YUV, RGB      Chroma Subsampling    14:4, 4:2; 4:2; 4:2:0	TMDS Clock	600 MHz			
2048x1536 @ 60 Hz    1366x768 @ 60 Hz      1920x1200 @ 60 Hz    1360x768 @ 60 Hz      1680x1050 @ 60 Hz    1152x864 @ 60 Hz      1600x1200 @ 60 Hz    1024x768 @ 60 Hz      1440x900 @ 60 Hz    800x600 @ 60 Hz      140x900 @ 60 Hz    640x480 @ 60 Hz      1280x1024 @ 60 Hz    640x480 @ 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    DrS® Digital    DTS® Digital Surround™      Pass-through    LPCM 5.1    Dolby TrueHD    DTS.* Digital Surround™      DFS    Dolby TrueHD    DTS.* Digital Surround™    DTS.*      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    Drocols    Device control and configuration; supports baud rates from 2400 to 9600      RS-232    Device control and configuration    D	UHD/HD/SD	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		720x576i @ 50 Hz 640x480p @ 60/59.96 Hz	
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	VESA <sup>(4)</sup>	2048×1536 @ 60 Hz  1366×    1920×1200 @ 60 Hz  1360×    1680×1050 @ 60 Hz  1152×    1600×1200 @ 60 Hz  1024×    1440×900 @ 60 Hz  800×6    1400×1050 @ 60 Hz  640×4    1280×1024 @ 60 Hz  640×4		366×768 @ 60 Hz 360×768 @ 60 Hz 152×864 @ 60 Hz 024×768 @ 60 Hz 00×600 @ 60 Hz	
Color Depth  8-bit, 10-bit, 12-bit    HDR  HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60Hz    Audio  Pass-through  LPCM 2.0  Dolby® Digital  DTS® Digital Surround™    Pass-through  LPCM 5.1  Dolby TrueHD  Dolby TrueHD  Dolby Atmos®    Sample Rate  32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz  DTS.X®    Bit Depth  Up to 24-bit  Device control and configuration; supports baud rates from 2400 to 9600    Management  HTTP, Telnet    Addressing  Device control and configuration; supports baud rates from 2400 to 9600    Bit Peth  Device control and configuration    RS-232  Device control and configuration    IP  Device control and configuration    IR  Device control and configuration    CEC  Device control and configuration    CEC  Device control and configuration    HDMI IN  1 - Type A, 19-pin, female    HDMI QUT  1 - RJ45, 10/100 Mbps    LAN")  2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin		,			
HDR  HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60Hz    Audio  Data Construction  Data Construction    Pass-through  LPCM 2.0 LPCM 5.1 LPCM 7.1  Dolby® Digital Dolby Digital Plus Dolby TrueHD Dolby Atmos®  DTS-HD Master Audio™ DTS.HD Master Audio™    Sample Rate  32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz  DTS.Y®    Bit Depth  Up to 24-bit  Delby Digital Plus Dolby Atmos®  DTS.Y®    Protocols  Control  Control  Control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to network  Period to 9600 Bidirectional pass-through from control system to network    IP  Device control and configuration  Device control and configuration  Control    IR  Device control and configuration  Device control and configuration  Device control and configuration    IR  Device control and configuration  Device control and configuration  Device control and configuration    Connectors  HDMI IN  1 - Type A, 19-pin, female  HDMI IN  HDMI IN  Auds, 10/100/1000 Mbps    LAN(*)  2 - RJ45, 10/100 Mbps  2 - RJ45, 10/100 Mbps  EAN(*)  EAN(*)  EAN(*)					
Audio  Pass-through  LPCM 2.0  Dolby® Digital  DTS® Digital Surround™    Pass-through  LPCM 5.1  Dolby Digital Plus  DTS-HD Master Audio™    Dolby TrueHD  Dolby TrueHD  Dolby Atmos®  DTS.*W    Sample Rate  32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz  DTS.*W    Bit Depth  Up to 24-bit  Device control and configuration; supports baud rates from 2400 to 9600    Bidirectional pass-through from control system to network  Device control and configuration    IP  Device control and configuration    IR  Device control and configuration    Cenctors  Device control and configuration    HDMI IN  1 - Type A, 19-pin, female    HDMI OUT  1 - RJ45, 10/1000 Mbps    LAW®  2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin					
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-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    Bit Depth  Up to 24-bit  TrueHD    Protocols    Management  HTTP, Telnet    Addressing  DHCP, static    Operice 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    CEC  Device control and configuration    IP  Device control and configuration    IR  Device control and configuration    CEC  Device control and configuration    VER  Device control and configuration    CA  Device control and configuration    LANIN  1 - Type A, 19-pin, female    HDMI IN  1 - RJ45, 10/100/1000 Mbps    LANIN  2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin	HDR	HDR10, Hybrid-Log Gamma (HLG), and Dolby <sup>®</sup> Vision™ @ 60Hz			
LPCM 5.1 LPCM 7.1Dolby Digital Plus Dolby TrueHD Dolby Atmos®DTS-HD Master Audio" DTS:X®Sample Rate Bit Depth32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHzDTSBit DepthUp to 24-bitProtocolsManagement AddressingHTTP, TelnetAddressingDHCP, staticOvice control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to networkIPDevice control and configurationIRDevice control and configurationContectorsDevice control and configurationIRDevice control and configurationConnectorsIHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(3)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin	Audio				
Bit Depth  Up to 24-bit    Protocols  HTTP, Telnet    Addressing  DHCP, static    Control  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    Centor  Device control and configuration    IR  Device control and configuration    Cec  Device control and configuration    VEC  Device control and configuration    Cell  Device control and configuration    CEC  Device control and configuration    Chaneetors  HDMI IN    HDMI IN  1 - Type A, 19-pin, female    HDMI OUT  1 - RJ45, 10/1000 Mbps    LAN <sup>(*)</sup> 2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin	Pass-through	LPCM 5.1	Dolby Digital Plus Dolby TrueHD	3	DTS-HD Master Audio <sup>™</sup>
Bit Depth  Up to 24-bit    Protocols  HTTP, Telnet    Addressing  DHCP, static    Control  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    Centor  Device control and configuration    IR  Device control and configuration    Cec  Device control and configuration    VEC  Device control and configuration    Cell  Device control and configuration    CEC  Device control and configuration    Chaneetors  HDMI IN    HDMI IN  1 - Type A, 19-pin, female    HDMI OUT  1 - RJ45, 10/1000 Mbps    LAN <sup>(*)</sup> 2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin	Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz			
ManagementHTTP, TelnetAddressingDHCP, staticControlDevice control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to networkIPDevice control and configurationIRDevice control and configurationIRDevice control and configurationCECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(*)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin					
ManagementHTTP, TelnetAddressingDHCP, staticControlDevice control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to networkIPDevice control and configurationIRDevice control and configurationIRDevice control and configurationCECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(*)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin					
Addressing  DHCP, static    Control  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  I    HDMI IN  1 - Type A, 19-pin, female    HDMI OUT  1 - RJ45, 10/100/1000 Mbps    LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin		LITTD Tala at			
Control  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  Device control and configuration    HDMI IN  1 - Type A, 19-pin, female    HDMI OUT  1 - RJ45, 10/100/1000 Mbps    LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps    RS-232 / IR OUT  1 - Captive screw, 5-pin	, , , , , , , , , , , , , , , , , , ,				
RS-232Device control and configuration; supports baud rates from 2400 to 9600 Bidirectional pass-through from control system to networkIPDevice control and configurationIRDevice control and configurationCECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(1)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin	Addressing	DHCP, Static			
Bidirectional pass-through from control system to networkIPDevice control and configurationIRDevice control and configurationCECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(1)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin	Control				
IRDevice control and configurationCECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(1)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin	RS-232				
CECDevice control and configurationConnectorsHDMI IN1 - Type A, 19-pin, femaleHDMI OUT1 - RJ45, 10/100/1000 MbpsLAN <sup>(1)</sup> 2 - RJ45, 10/100 MbpsRS-232 / IR OUT1 - Captive screw, 5-pin	IP				
Connectors      HDMI IN    1 - Type A, 19-pin, female      HDMI OUT    1 - RJ45, 10/100/1000 Mbps      LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps      RS-232 / IR OUT    1 - Captive screw, 5-pin	IR	Device control and configuration			
HDMI IN    1 - Type A, 19-pin, female      HDMI OUT    1 - RJ45, 10/100/1000 Mbps      LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps      RS-232 / IR OUT    1 - Captive screw, 5-pin	CEC	Device control and configuration			
HDMI IN    1 - Type A, 19-pin, female      HDMI OUT    1 - RJ45, 10/100/1000 Mbps      LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps      RS-232 / IR OUT    1 - Captive screw, 5-pin					
LAN <sup>(1)</sup> 2 - RJ45, 10/100 Mbps      RS-232 / IR OUT    1 - Captive screw, 5-pin	HDMI IN				
RS-232 / IR OUT 1 - Captive screw, 5-pin					
FW / DC 5V  1 - mini USB					
	FW/DC5V				



Indicators and Controls					
POWER	1 - LED, green				
SOURCE	1 - LED, yellow				
IP MODE / RESET	2 - LED, green				
IP MODE, RESET	2 - Momentary, tact type				
Decelution / Distance		1000m E	+ / <b>\ A</b> = + ==		
Resolution / Distance HDMI IN / HDMI OUT	4K/UHD - Feet / Meters	1080p - Fee			
	15 5	30	10		
Power					
PoE	IEEE 802.3af				
Consumption	5.32 W				
BTU/h	18.1				
External Power Supply	5 V, 500 mA (USB)				
(optional)					
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-condensir		0		
		.9			
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				
	0.30 kg				
Certification					
Device	CE, FCC, CB, RoHS				
Supply	CE, FCC, cULus, CB, RCM,	RoHS			
Compliance					
Compliance	Yee				
NDAA-899	Yes				
ТАА	Tes				
Warranty					
Device	To view the product warranty	To view the product warranty, use the following link:			
	https://atlona.com/warranty	-			

### 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

## Footnotes

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



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# **D**Olby

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