

## AMX 4K60 In-Line Controller

4K60 4:4:4 and HDCP 2.2. support including CEC control and EDID emulation  
DCE-1 (FG1015-200)

Front



Rear



### Overview

The AMX DCE-1 In-Line Controller combines CEC control, EDID emulation and audio extraction in a single, cost-effective device. The DCE-1 provides EDID emulation for resolutions up to 4K60 4:4:4, and includes HDCP 2.2 support, offering compatibility with the latest displays and source devices. The integrator can either copy the EDID from the output or select from one of 15 preprogrammed EDIDs.

The controller provides a fixed EDID to the source device to ensure it reliably outputs video in the correct resolution for the display. The DCE-1 also offers audio de-embed capabilities, with digital SPDIF and analog output options. To simplify display control, the DCE-1 also offers the ability to turn the display on and off using CEC or RS232 strings whenever a source device is connected or disconnected.

### Common Applications

Ideal for a variety applications requiring in-line EDID emulation, audio extraction, or simple display control.

### Features

- **Extended Display Identification Data (EDID)** – Provides a fixed EDID to the source to ensure that it always reliably outputs video
- **4K60 4:4:4 and HDCP 2.2 Support** – Support the latest source and display devices. Experience pixel-for-pixel video reproduction of 4K60 source video with full 4:4:4 color space
- **Signal-Based Display Control** – Use CEC or RS232 to automatically turn displays on/off in response to a change in the input signal
- **Audio De-embed Capabilities** – Remove audio from line to be used in signal processing, amplification, and more

**Specifications – Subject to Change**

<b>General</b>	
Dimensions	3 in (8cm) depth 4.7 in (12cm) width 1 in (2.5cm) height
Weight	Approx. 66 lb (0.30 kg)
Shipping Weight	TBD
Mounting Options	Includes V-Style surface mount brackets
MTBF	CE, FCC, NRTL, RoHS, WEEE
Airflow	Convection (openings on sides)
Approvals: Regulatory Compliance	TBD
MTBF	4x 3P-3.5MM Phoenix Connectors 1x 12V/1A Power Adapter 1x US exchangeable adapter 1x EU exchangeable adapter 1x UK exchangeable adapter 2x mounting ear 4x M2.5 screw (for mounting ears)
<b>Power Supply</b>	
External, Included	12 VDC 2A Max Output; 100-240V 50/60Hz AC Input
<b>Active Power Requirements</b>	
Voltage, DC (Typical)	12 VDC
Power Consumption	3.6w
Power Connector	Screw down locking power connector
<b>Environmental</b>	
Temperature (Operating)	32° F to 122° F (0° C to 50° C)
Temperature (Storage)	14° to 140° F (-10° to 60° C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	10% to 90% RH (non-condensing)
Thermal Dissipation	12 BTU/hr
<b>Front Connectors</b>	
DC Power	Screw Down Locking Power Connector
HDMI Input	(1) HDMI Type A Female Connector
Digital Audio Output	(1) RCA S/PDIF
Analog Stereo Output	(1) 3 Position 3.5mm pluggable Phoenix Terminal Block
<b>Rear Connectors</b>	
Relay Control	(2) 3 Position 3.5mm Pluggable Phoenix Terminal Blocks
HDMI Output	(1) HDMI Type A Female Connector
Serial	3 Position 3.5mm Pluggable Phoenix Terminal Block Bidirectional RS-232 Supported Baud Rates: 9600 - 57600 Parity support: None
<b>Controls and Indicators</b>	
Power Indicator	Green LED, Solid ON when power is applied (Front)
EDID Selection	Rotary Dial - 16 Position
<b>HDMI</b>	
Compatible Formats	HDMI , HDCP
Signal Type Support	HDMI, DisplayPort++ (input only with HDMI cable adapter)

Output Signal Type	HDMI, HDCP
Output Connector	HDMI Type A Female
Input Video Level	.5 - 1.2 V p-p
Data Rate (Max)	18 Gbp
Pixel Clock (Max)	Up to 600 Mhz
Resolution Support	<p>VESA</p> <p>800x600 @ 60 Hz</p> <p>1024x768 @ 60 Hz</p> <p>1280x768, @ 60 Hz</p> <p>1280x800 @ 60 Hz</p> <p>1280x960 @ 60 Hz</p> <p>1280x1024 @ 60 Hz</p> <p>1360x768 @ 60 Hz</p> <p>1366x768 @ 60 Hz</p> <p>1440x900 @ 60 Hz</p> <p>1600x900 @ 60 Hz</p> <p>1600x1200 @ 60 Hz</p> <p>1680x1050 @ 60 Hz</p> <p>1920x1200 @ 60 Hz</p> <p>2048x1152 @ 60 Hz</p> <p>3840x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz</p> <p>4096x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz</p> <p>SMPT:</p> <p>720x480 @ 59.94 Hz, 60 Hz</p> <p>720x576 p @ 50 Hz</p> <p>1280x720 p @ 50 Hz, 59.95 Hz, 60 Hz</p> <p>1920x1080 p @ 50 Hz, 59.94 Hz, 60 Hz</p> <p>Established Timing</p> <p>1280 x 1024 @ 75 Hz</p> <p>1152 x 870 @ 75 Hz</p> <p>1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz</p> <p>832 x 624 @ 75 Hz</p> <p>800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz</p> <p>720 x 400 @ 70 Hz, 88 Hz</p> <p>640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz</p> <p>CEA Information Code (VIC) Formats:</p> <p>VIC = 1, 640 x 480 p 59.94/60 Hz 4:3</p> <p>VIC = 2, 720 x 480 p 59.94/60 Hz 4:3</p> <p>VIC = 3, 720 x 480 p 59.94/60 Hz 16:9</p> <p>VIC = 4, 1280 x 720 p 59.94/60 Hz 16:9</p> <p>VIC = 5, 1920 x 1080 i 59.94/60 Hz 16:9</p> <p>VIC = 6, 720(1440) x 480 i 59.94/60 Hz 4:3</p> <p>VIC = 7, 720(1440) x 480 i 59.94/60 Hz 16:9</p> <p>VIC = 14, 1440 x 480 p 59.94/60 Hz 4:3</p> <p>VIC = 15, 1440 x 480 p 59.94/60 Hz 16:9</p> <p>VIC = 16, 1920 x 1080 p 59.94/60 Hz 16:9</p> <p>VIC = 17, 720 x 576 p 50 Hz 4:3</p> <p>VIC = 18, 720 x 576 p 50 Hz 16:9</p> <p>VIC = 19, 1280 x 720 p 50 Hz 16:9</p> <p>VIC = 20, 1920 x 1080 i 50 Hz 16:9</p> <p>VIC = 21, 720(1440) x 576 i 50 Hz 4:3</p> <p>VIC = 22, 720(1440) x 576 i 50 Hz 16:9</p> <p>VIC = 29, 1440 x 576 p 50 Hz 4:3</p> <p>VIC = 30, 1440 x 576 p 50 Hz 16:9</p> <p>VIC = 30, 1440 x 576 p 50 Hz 16:9</p> <p>VIC = 31, 1920 x 1080 p 50 Hz 16:9</p>

	VIC = 32, 1920 x 1080 p 23.97/24 Hz 16:9 VIC = 33, 1920 x 1080 p 25 Hz 16:9 VIC = 34, 1920 x 1080 p 29.97/30 Hz 16:9 VIC = 39, 1920 x 1080 i 50 Hz 16:9 VIC = 41, 1280 x 720 p 100 Hz 16:9 VIC = 42, 720 x 576 p 100 Hz 4:3 VIC = 43, 720 x 576 p 100 Hz 16:9 VIC = 44, 720(1440) x 576 i 100 Hz 4:3 VIC = 45, 720(1440) x 576 i 100 Hz 16:9
4K Format Support	3840x2160p@24/25/30/60 Hz, 4:4:4 4096x2160p@24/25/30/60 Hz, 4:4:4 3840x2160p@50/60 Hz, 4:2:0 4096x2160p@50/60 Hz, 4:2:0
Audio Format Support	Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, 2 CH L-PCM, 6 CH L-PCM, 8 CH L-PCM Dolby Digital and DTS support up to 48kHz, 5.1 channel
Digital Audio S/PDIF Output	Supported when HDMI embedded audio is up to PCM 5.1, Dolby Digital, DTS 5.1
Analog Stereo Output	Supported when audio is 2 Channel PCM
HDCP Support	Yes HDCP 1.4, 2.2
CEC Support	Yes, Auto or Manual

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