

CE824

USB HDMI Dual View HDBaseT™ 2.0 KVM Extender (4K@100m for Single View)



ATEN CE824 adopts HDBaseT 2.0 technology to transmit uncompressed HDMI video, stereo audio, USB, and RS-232 signals while supporting up to 4096 x 2160 @ 30Hz (4:4:4) on a single display / 1080p on dual displays across 100 m over a single Cat 6 / 6A cable (ATEN [2L-29330](#) recommended), allowing access to a distant computer for KVM control from the remote console. With Long Reach Mode enabled, the CE824 can extend 1080p HDMI source along with other signals up to 150 m.* The ease of cabling installation plus the rack mount compatibility assure a more efficient system setup. The CE824 serves as an ideal solution for applications that require high-quality multi-signal extension and KVM control across long distances – such as control centers, banking and finance sectors, industrial warehouses, and extended workstations.

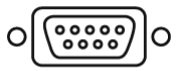
Note: 1080p @ 150 m can only be achieved via single display installation.



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



Digital Audio



Serial Control



Dual Display



Long Reach Mode

Features

- Allows HDMI dual view access to a distant computer for KVM control from remote console
- Transmits uncompressed HDMI video / stereo audio / USB / RS-232 signals via one single Cat 6 / 6A / ATEN [2L-29330](#) cable over long distances:
 - Standard mode supports single view at up to 4K or dual-view up to 1080p over 100 m
 - Long Reach mode supports single view at up to 1080p or dual-view up to 720p over 150 m*
- 4 x USB 2.0 Type-A ports on the remote unit for connection to multiple USB peripherals
- Supports 2-channel stereo audio
- EDID buffer for smooth power-up and the highest quality display
- PC wakeup function enabled via a pushbutton through RS-232
- HDCP compatible
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)
- DC Jack with screw-lock ensures stable and secure connection
- Rack mountable

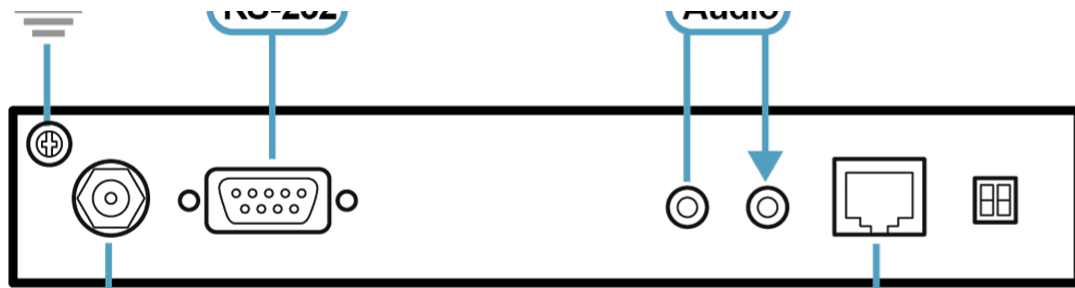
Note: 1080p @ 150 m can only be achieved via single display installation.

Specification

| Function | CE824L | CE824R |
|------------------------|--|--|
| Connectors | | |
| KVM Ports | 2 xHDMI Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) | N/A |
| Console Ports | N/A | 2 x HDMI Female (Black) 4 x USB Type A Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) |
| RS-232 | 1 x DB-9 Female (Black) | 1 x DB-9 Male (Black) |
| Power | 1 x DC Jack (Black) | 1 x DC Jack (Black) |
| Unit To Unit | 1 x RJ-45 Female (Black) | 1 x RJ-45 Female (Black) |
| LEDs | | |
| Power | 1 (Green) | 1 (Green) |
| Link | 1 (Orange) | 1 (Orange) |
| Video Output | N/A | 2 (Orange) |
| Switches | | |
| Long Reach Mode Switch | 1 x Slide Switch | 1 x Slide Switch |
| Firmware Upgrade | 1 x Slide Switch | 1 x Slide Switch |
| Pushbuttons | | |
| Wakeup button | N/A | 1 x Pushbutton |
| Video | Single view: Up to 4K@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A) 1080P@150m (Cat 6/6a/ATEN 2L-29330 Cat 6A) with Long Reach Mode enabled Dual-view: Up to 1080p@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A) *4K supported: 4096 x 2160 @ 60Hz (4:2:0), 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) | Single view: Up to 4K@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A) 1080P@150m (Cat 6/6a/ATEN 2L-29330 Cat 6A with Long Reach Mode enabled) Dual-view: Up to 1080p@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A) *4K supported: 4096 x 2160 @ 60Hz (4:2:0), 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Power Consumption | DC12V:5.98W:28BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. | DC12V:10.32W:57BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Environmental | | |
| Operating Temperature | 0–40°C | 0–40°C |
| Storage Temperature | -20–60°C | -20–60°C |
| Humidity | 0–80% RH, Non-condensing | 0–80% RH, Non-condensing |
| Physical Properties | | |
| Housing | Metal | Metal |
| Weight | 0.79 kg (1.74 lb) | 0.82 kg (1.81 lb) |
| Dimensions (L x W x H) | 17.42 x 15.59 x 2.88 cm (6.86 x 6.14 x 1.13 in.) | 17.42 x 15.59 x 2.88 cm (6.86 x 6.14 x 1.13 in.) |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. | |

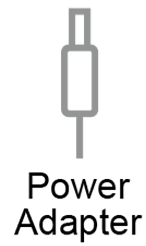
Diagram





**CE824L
Rear View**

Power

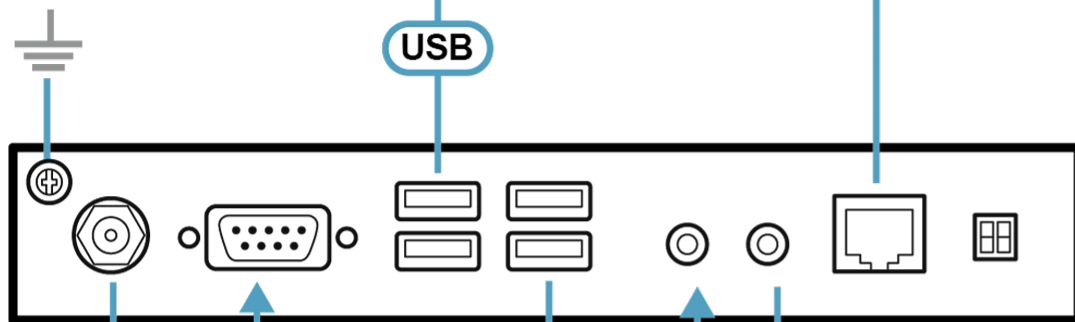


USB
Flash Drives



USB

HDBaseT



**CE824R
Rear View**

Power



Power
Adapter

RS-232



Hardware /
Software Controller

USB



Keyboard
Mouse

Audio



Mic
Speakers