

## 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.

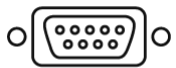
Note: 1080p @ 150 m can only be achieved via single display installation.



**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 x HDMI Female (Black)<br>1 x USB Type B Female (White)<br>1 x Mini Stereo Jack Female (Green)<br>1 x Mini Stereo Jack Female (Pink)                                                                                                                                                                  | N/A                                                                                                                                                                                                                                                                                                    |
| Console Ports          | N/A                                                                                                                                                                                                                                                                                                    | 2 x HDMI Female (Black)<br>4 x USB Type A Female (White)<br>1 x Mini Stereo Jack Female (Green)<br>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)<br>1080P@150m (Cat 6/6a/ATEN 2L-29330 Cat 6A) with Long Reach Mode enabled<br><br>Dual-view: Up to 1080p@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A)<br><br>*4K supported:<br>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)<br>1080P@150m (Cat 6/6a/ATEN 2L-29330 Cat 6A) with Long Reach Mode enabled<br><br>Dual-view: Up to 1080p@100m (Cat 6/6a/ATEN 2L-29330 Cat 6A)<br><br>*4K supported:<br>4096 x 2160 @ 60Hz (4:2:0), 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) |
| Power Consumption      | DC12V:5.98W:28BTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.                                                    | DC12V:10.32W:57BTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● 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<br>(6.86 x 6.14 x 1.13 in.)                                                                                                                                                                                                                                                    | 17.42 x 15.59 x 2.88 cm<br>(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



