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## CE820R

USB HDMI HDBaseT 2.0 KVM Extender (Remote Unit) (4K@100)



The ATEN [CE820](#) USB HDMI [HDBaseT™ 2.0 KVM Extender](#) integrates the latest [HDBaseT™ 2.0](#) technologies to deliver 4K HDMI video, stereo audio, USB, Ethernet\*, and RS-232 signals up to 100 meters using single Cat6 / [2L-2910](#) Cat 6 cable. The [HDBaseT™ 2.0](#) guarantees the most reliable transmission on the market as well as enables the long-reach capability that extends full HD 1080P signals up to 150 meters. With an easy cable installation supporting various signals, the [CE820](#) is ideal for applications where convenient remote access is required – such as transportation control centers, medical facilities, industrial warehouses, and extended workstations.

\* Note: The CE820R-AT supports Ethernet function and the CE820R-ATA does not.



### Features

- Supports [HDBaseT™ 2.0](#) technology
  - Extends video, audio, USB, RS-232, and Ethernet <sup>1</sup> signals via a single Cat6 / 6a cable / [2L-2910](#) Cat 6 cable
  - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions
  - Status detection and LED indication for [HDBaseT™](#) signal transmission on remote unit
- EDID Buffer for smooth power-up and the highest quality display
- HDMI (3D, Deep Color, 1080P, 4K); HDCP 2.2 Compatible
- Long distance with superior video quality
  - [HDBaseT™](#) Standard mode up to 4K @ 100 m (Cat 6 / 6a)
  - [HDBaseT™](#) Long-Reach mode up to 1080P @ 150 m
- Long Reach mode switch – switches between [HDBaseT™](#) Standard and Long Reach modes in a snap
- Supports individual 2-channel stereo audio and USB 2.0 full speed ports
- Supports PC wakeup function via single pushbutton
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

Note: 1. The [CE820](#)-AT supports Ethernet function, and the [CE820](#)-ATA does not.

## Specifications

|                        |   |
|------------------------|---|
| Connectors             |   |
| Console Ports          | 1 x HDMI Female (Black)<br>3 x USB Type A Female<br>1 x Mini Stereo Jack Female (Green)<br>1 x Mini Stereo Jack Female (Pink)<br>1 x RJ-45 Female (Black)<br><br>Note: The RJ-45 ports is functional for device supporting the Ethernet port  |
| KVM Ports              | N/A   |
| RS-232                 | 1 x DB-9 Male (Black)   |
| Power                  | 1 x DC Jack with locking  |
| Unit To Unit           | 1 x RJ-45 Female (Black)  |
| LEDs                   |   |
| Power                  | 1 (Green)   |
| Link                   | 1 (Orange)  |
| Video Output           | 1 (Orange)  |
| Switches               |   |
| Long Reach Mode Switch | 1 x Slide Switch  |
| Firmware Upgrade       | 1 x Slide Switch  |
| Pushbuttons            |   |
| Wakeup button          | 1 x Push button   |
| Video                  | Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6)<br>1080P@100m (Cat 5e/6/6a)<br>*4K supported:<br>4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);<br>4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)  |
| Power Consumption      | DC5V:5.37W:40BTU/h<br><br>Note: <ul style="list-style-type: none"> <li>● The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul> |
| Environmental          |   |
| Operating Temperature  | 0–40°C  |
| Storage Temperature    | -20–60°C  |
| Humidity               | 0–80% RH, Non-condensing  |
| Physical Properties    |   |
| Housing                | Metal   |
| Weight                 | 0.65 kg ( 1.43 lb )   |
| Dimensions (L x W x H) | 18.20 x 12.19 x 2.87 cm<br>(7.17 x 4.8 x 1.13 in.)  |
| Note                   | The CE820R-AT supports Ethernet function and the CE820R-ATA does not.   |
| Note                   | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.   |

Diagram

