Simply Better Connections

CE820

USB HDMI HDBaseT™ 2.0 KVM Extender (4K@100 m)

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 CE820-AT supports Ethernet function and the CE820-ATA does not.

Features

- Supports HDBaseT™ 2.0 technology
  - Extends video, audio, USB, RS-232, and Ethernet [1] 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 / 2L-2910)
  - 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 through RS-232 channel [2]
- Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)

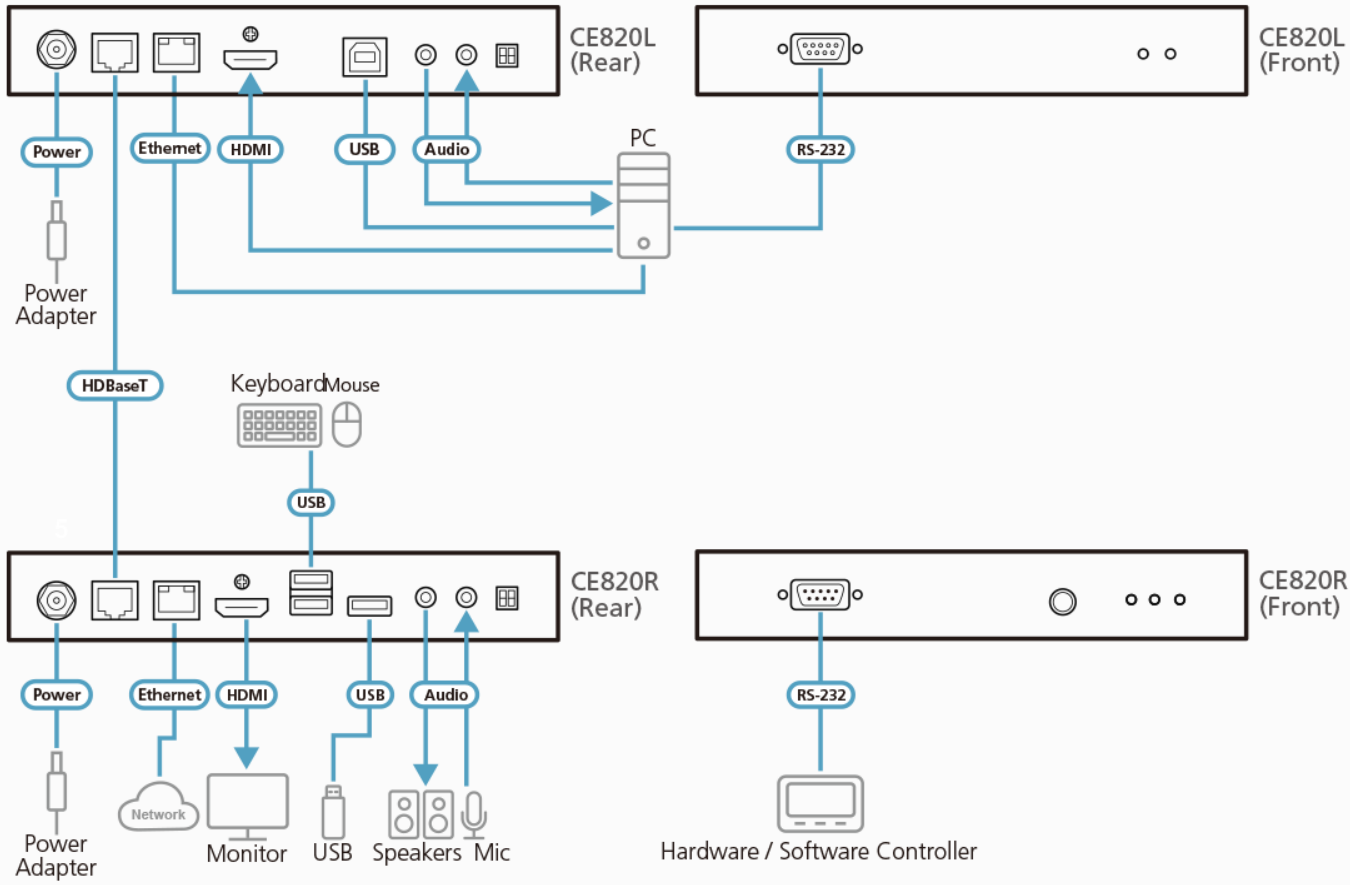
Note:
1. The CE820-AT supports Ethernet function, and the CE820-ATA does not.
2. The computer has to support Wake Up Ring for this function to work.

Specification

Function	CE820L	CE820R
Connectors		
Console Ports	N/A	1 x HDMI Female (Black) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 ports is functional for device supporting the Ethernet port

KVM Ports	1 x HDMI Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) Note: The RJ-45 ports is functional for device supporting the Ethernet port	N/A
RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)
Power	1 x DC Jack with locking	1 x DC Jack with locking
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	1 (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 Push button
Video	Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6) 1080P@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6) 1080P@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Power Consumption	DC5V:2.87W:13BTU 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.	DC5V:5.37W:40BTU 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	0.63 kg (1.39 lb)	0.65 kg (1.43 lb)
Dimensions (L x W x H)	18.20 x 12.19 x 2.87 cm (7.17 x 4.8 x 1.13 in.)	18.20 x 12.19 x 2.87 cm (7.17 x 4.8 x 1.13 in.)
Note	The CE820-AT supports Ethernet function and the CE820-ATA does not.	The CE820-AT supports Ethernet function and the CE820-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



* The Ethernet port is functional for device supporting the Ethernet port only.

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