Simply Better Connections

CE801

USB True 4K HDMI Cat 6 KVM Extender (4K @ 70 m / FHD @ 100 m)

The CE801L and CE801R are USB HDMI Cat 6 KVM extenders designed to bridge the gap between local and remote consoles with smooth, efficient KVM operations. With the source computer connected to the CE801L, you can benefit from instantly responsive KVM control at the CE801R remote console – featuring uncompromising True 4K video, crystal-clear digital audio, high-speed USB peripheral data, and uninterrupted serial control over distances up to 70 meters, all via a single Cat 6 connection. When it comes to simplified KVM extension and ergonomic remote access with hardware securely located away from the workspace, the CE801 speaks for itself.

Simply Better Connections

4K TRUE
Up to 70 m

FHD
Up to 100 m

HDR

Digital Audio

Dual Console

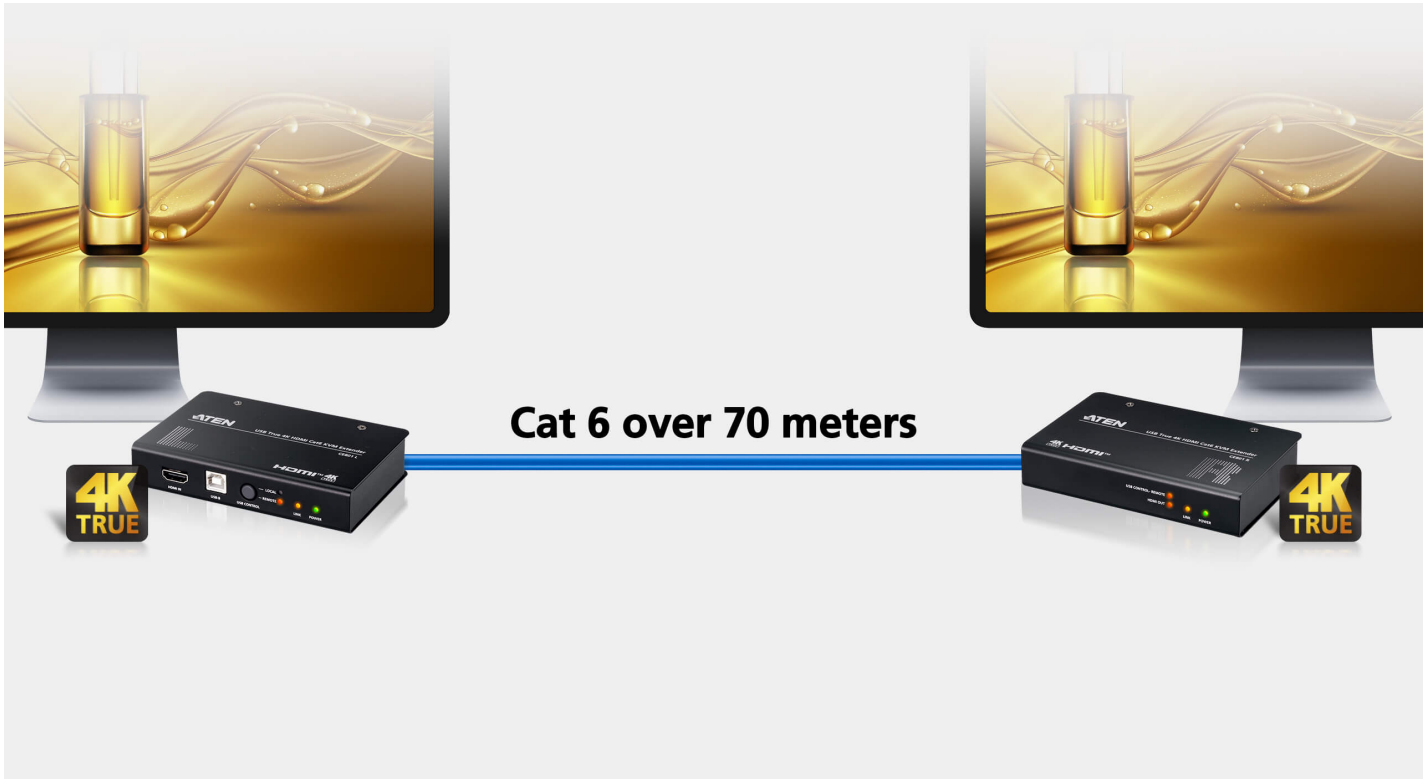
Rack Mountable

Serial Control

True 4K KVM Extension up to 70 m

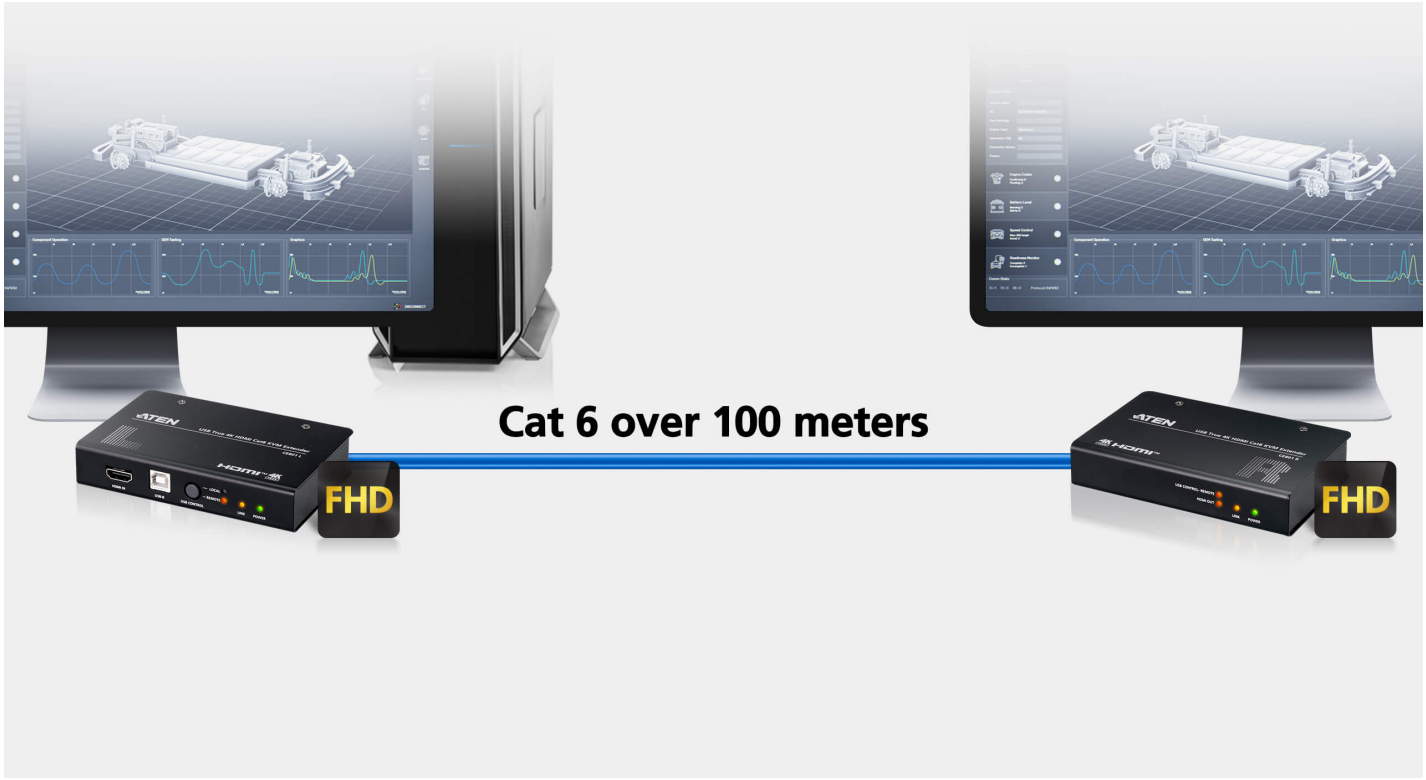
The CE801 extends KVM control up to 70 meters over a Cat 6* connection – transmitting stunning True 4K video with HDR, along with USB data, digital audio, and serial control between local and remote consoles.

* To ensure stable operation and adequate protection against electromagnetic interference (EMI), shielded twisted-pair (STP) cables shall be used, and the unit shall be properly grounded.



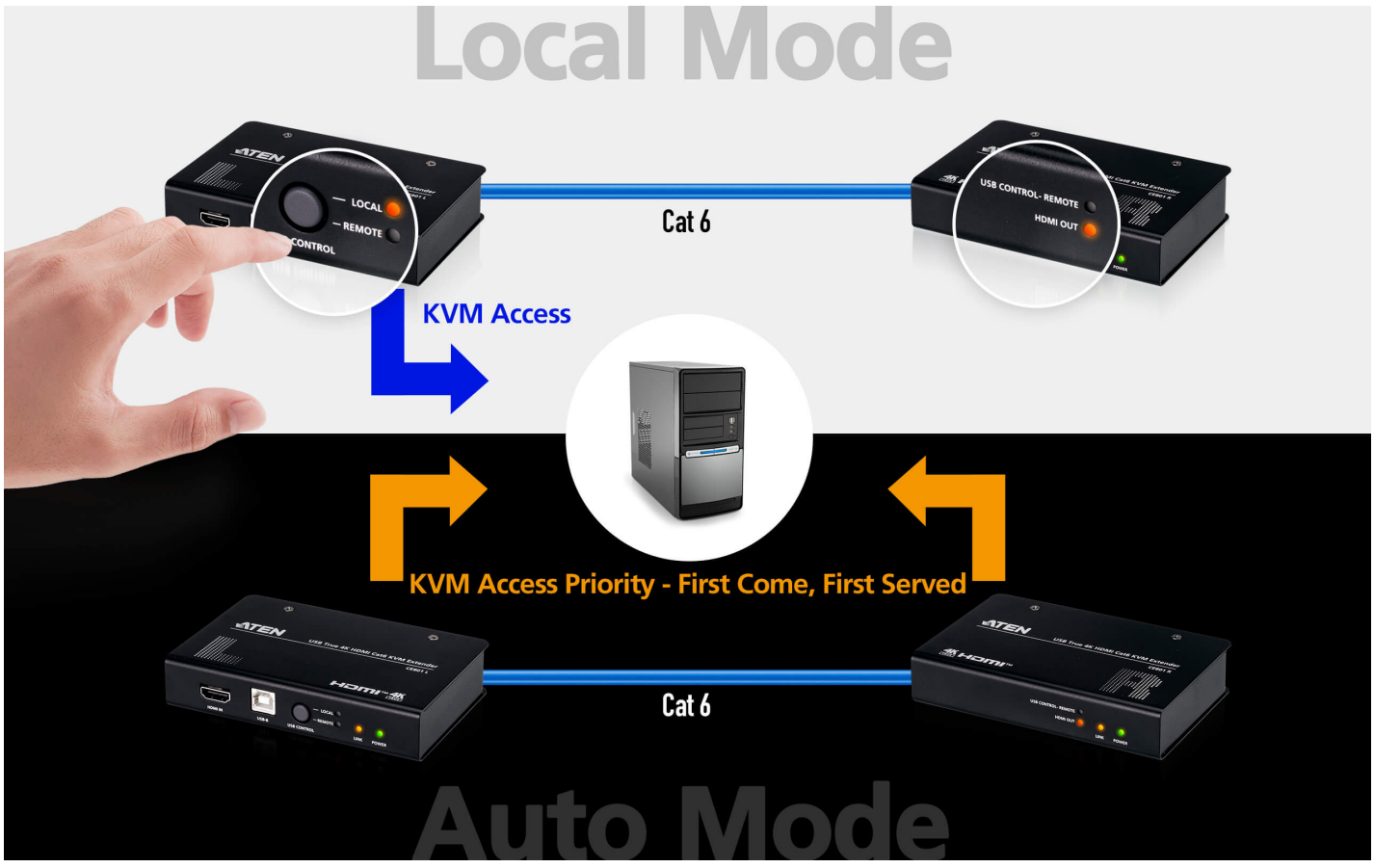
FHD Long-Reach KVM Extension up to 100 m

With the Long-Reach mode, the CE801 enables KVM extension up to 100 meters over a Cat 6 connection – delivering crisp 1080p video clarity with ease.



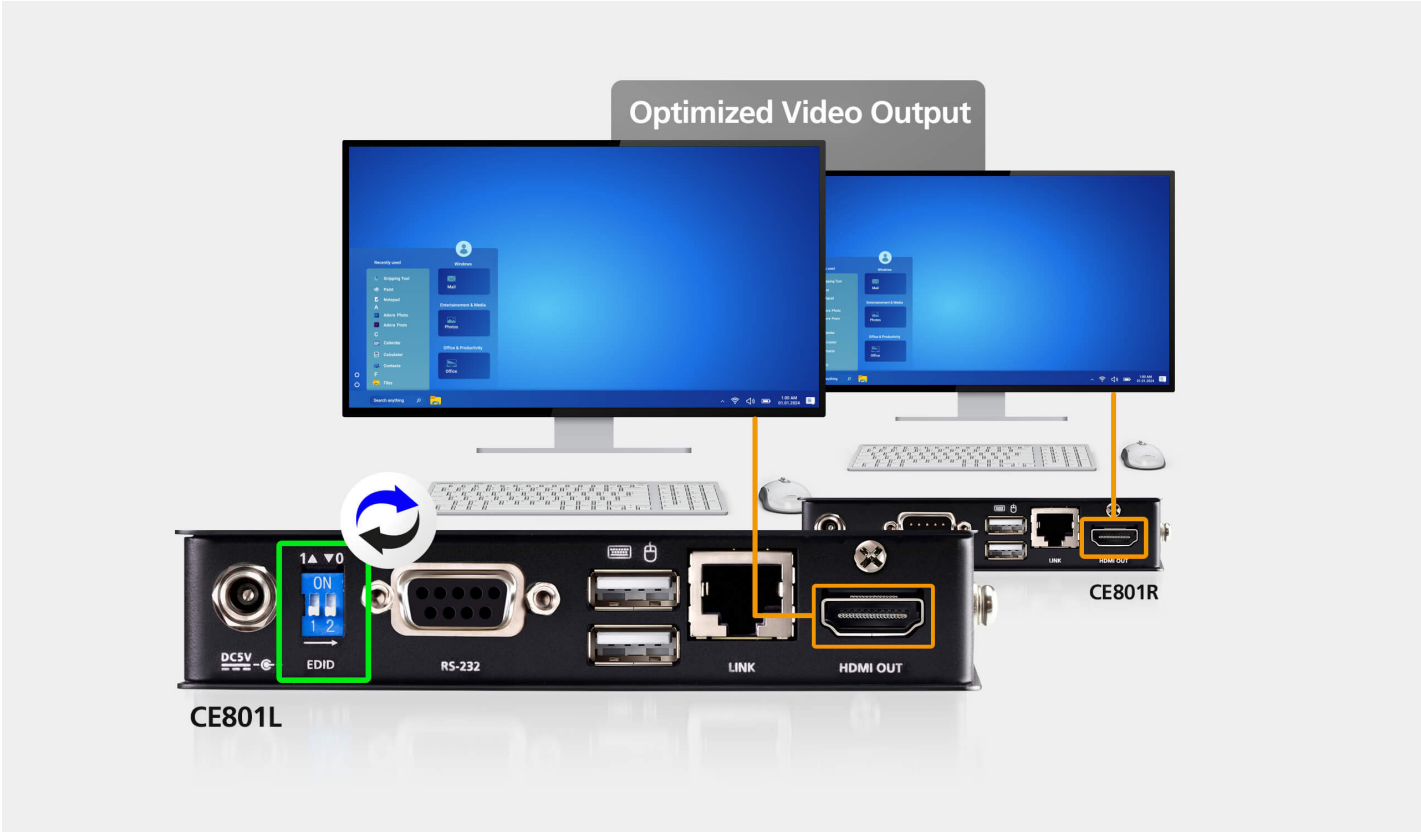
Dual Console Access with Privileged KVM Control

Pressing the pushbutton on the CE801L grants the local console priority KVM access to the source PC at any time (Local Mode). Pressing the button again releases this priority (Auto Mode), allowing KVM access from either the local or remote console – whichever gains control first.



Optimal Video with EDID Switching

To ensure optimum output quality on both the local and remote consoles, the EDID switches on the CE801L can be adjusted to configure the EDID for both HDMI outputs.



RS-232 Serial Communication for Extended Control

The CE801R is equipped with a serial port for connection to a serial device – such as a touchscreen or barcode scanner – which can be remotely communicated via RS-232 commands from a serial terminal (or PC) connected to the CE801L, facilitating real-time device interaction and data transmission between the local and remote consoles.

Secure Installation for Reliable Power Supply

The power adapter is secured with a screw lock on the DC jack, ensuring a stable power supply while preventing accidental disconnections.

Rack-Mountable Design

The KVM extenders are compact and rack mountable, making them flexible for a space-efficient installation.

Applications

Simply Better Connections

Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly

First Name *

Last Name *

- Country *

Company *

Email *

Phone Number *

- Customer Type *

Job Title *

4K TRUE HDR HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Digital Audio Dual Console Serial Control

Features

CE801 is an extender kit that allows for sharp, life-like True 4K (3840 x 2160 @ 60 Hz 4:4:4) HDMI, RS-232, and USB transmission across 70 m over one single Cat 6 cable. Dual console USB Keyboard / Mouse operation is enabled by the USB control mode pushbutton switching USB console control privilege between the remote and local units. RS-232 extension capability facilitates uninterrupted communication between serialinterfaced devices and equipment, which are crucial in industrial control systems.

CE801 is ideal for medium to large scale applications where incredibly sharp and detailed visualization, multisignal extension, and privileged USB control via local / remote console are essential, including control centers, retail shops, factories, medical facilities, and home theaters.

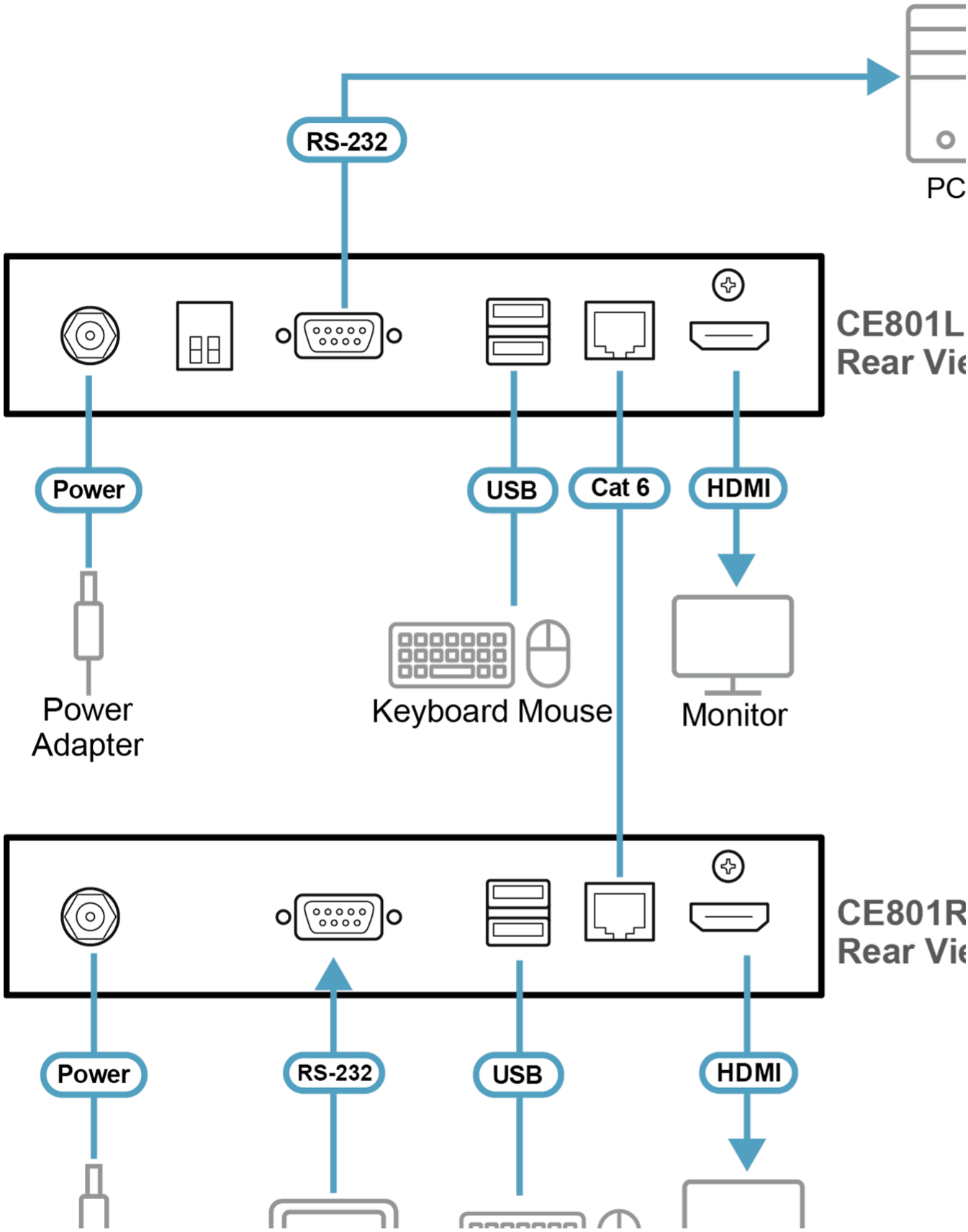
- Extends HDMI video, USB keyboard/mouse control, embedded audio, and RS-232 control signals across 70 m over a Cat 6 cable*
- Long reach mode – 1080p extension up to 100 m
- Supports resolutions up to 3840 x 2160 @ 60 Hz (4:4:4) with HDCP 2.2 / 2.3 compliance
- Dual console USB keyboard / mouse operation - control privilege between the remote and local units switchable via USB control mode pushbutton
- Supports HDR 10 for enhanced video quality
- Supports wide screen format
- Supports digital audio formats such as 7.1ch Dolby and DTS audio
- Plug-and-play with no software or driver required
- Built-in 8KV/15KV ESD protection
- Rack-mountable
- DC Jack with screw-lock ensures stable and secure connection

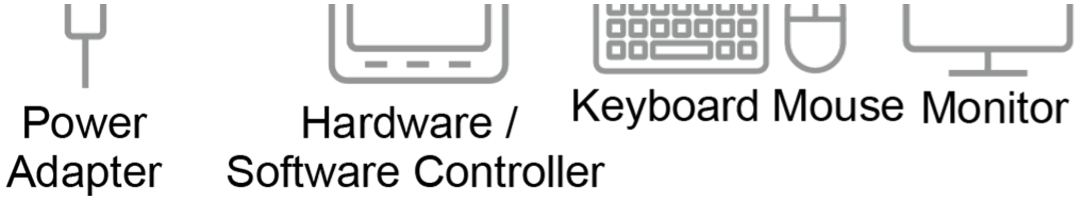
* To ensure stable operation and adequate protection against electromagnetic interference (EMI), shielded twisted-pair (STP) cables shall be used, and the unit shall be properly grounded.

Specification

Function	CE801L	CE801R
Connectors		
Console Ports	1 x HDMI Female (Black) 2 x USB Type A Female (White)* * For Keyboard & Mouse only	1 x HDMI Female (Black) 2 x USB Type A Female (White)* * For Keyboard & Mouse only
KVM Ports	1 x HDMI (Female, Black) 1 x USB Type B (Female, White)	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)
Video		
Compliance	HDMI (4K/60Hz); 4K HDR HDCP2.3 Compatible	HDMI (4K/60Hz); 4K HDR HDCP2.3 Compatible
Max. Resolution	3840 x 2160 @ 60Hz (4:4:4)	3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distance	4K x 2K @ 60Hz (4:4:4) up to 70m (Cat 6/6a /ATEN 2L-29330 Cat 6A cable) 1920 x 1080 @ 60Hz (4:4:4) up to 100m (Cat 6/6a/ATEN 2L-29330 Cat 6A cable with Long reach mode enabled) * For stable operation, STP cables shall be used, and the unit shall be properly grounded.	4K x 2K @ 60Hz (4:4:4) up to 70m (Cat 6/6a/ATEN 2L-29330 Cat 6A cable) 1920 x 1080 @ 60Hz (4:4:4) up to 100m (Cat 6/6a/ATEN 2L-29330 Cat 6A cable with Long reach mode enabled) * For stable operation, STP cables shall be used, and the unit shall be properly grounded.
LEDs		
Power	1 (Green)	1 (Green)
Link	1 (Orange)	1 (Orange)
Video	N/A	1 (Orange)
Console Status	2 (Orange)	1 (Orange)
Switches		
DIP	1 x 2 pin	N/A
Pushbuttons		
Operating Mode Selection	1 x Pushbutton	N/A
Power Consumption	DC5V:2.59W: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.	DC5V:1.88W:13BTU/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	0.32 kg (0.7 lb)	0.31 kg (0.68 lb)
Dimensions (L x W x H)	12.80 x 8.21 x 2.50 cm (5.04 x 3.23 x 0.98 in.)	12.80 x 8.15 x 2.50 cm (5.04 x 3.21 x 0.98 in.)
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	

Diagram


RS-232
PC
CE801L
Rear Vie
Power
USB
Cat 6
HDMI
Power
Adapter
Keyboard Mouse
Monitor
CE801R
Rear Vie
Power
RS-232
USB
HDMI



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