ATEN
Simply Better Connections

Closer to the Action
HDBaseT and Fiber KVM Extenders

CONTENT

HDBaseT
KVM Extender
Series

Contributor to the Next Generation of Connectivity

Contributor to the Next Generation of Connectivity Alliance, ATEN has over 30 qualified HDBaseT™ trainers and over 20 Pro AV solutions certified by HDBaseT™, including video matrix switches and high-definition video/KVM extenders and splitters.

In addition to new Contributor member privileges, such as a dedicated company page in the HDBaseT Alliance's Installer Zone, ATEN will also be invited to share the benefits of its 40 years of IT management and KVM control experience to define specifications for products that further accelerate the integration of AV and IT technologies, in turn helping both customers and solution partners to stay ahead of the curve.

ATEN HDBaseT Profile

- Since 2013
- Contributor member
- 30+ ATEN-HDBaseT trainers
- 20+ ATEN-HDBaseT products
  Modular Matrix Switches
  Video Matrix Switches
  Video Splitters
  Video Extenders
  KVM Extenders

Benefits of ATEN HDBaseT KVM Extenders

ATEN merges its capabilities along with HDBaseT 5Play technology to deliver simultaneous extension of uncompressed Ultra HD Video and Audio, Ethernet, USB, control, and power over a single cable up to 150m.

Uncompressed Video Transmission
Delivers up to 4K video quality with uncompressed, pixel-to-pixel accuracy.

Outstanding USB Compatibility
Compatibility testing with a multitude of USB peripheral devices.

Anti-jamming Design
HDBaseT anti-jamming technology resists signal interference during high-quality video transmissions.

Remote Wake-up PC Function
Allows user to simply push a button to remote wake up the PC from Standby Mode.

Flexible Mix and Match
Mix and match any transmitter and receiver model to convert interfaces while extending KVM signals.

Audio Enabled
Supports individual 2-channel stereo audio / PCM digital audio for high-quality audio applications.

Extra Reliability & Stability
Strict testing process with 50,000hrs burn-in test and 1,000 times power on/off test.

Surge Protection
Built-in 8KV / 15KV ESD protection to prevent device breakdown during instances of power surges.

Simplified Setup
Connects transmitter and receiver units over one single Cat6 / 6a cable without complicated IT settings.

Flexible Control
Provides multiple control channels including RS-232, Ethernet, and USB.

HDBaseT KVM Extender Series

CE920
USB DisplayPort HDBaseT 2.0
KVM Extender

Long Reach Mode | **4K**

CE820
USB HDMI HDBaseT 2.0
KVM Extender

HDCP 2.2 | Long Reach Mode | **4K**

CE624
USB DVI Dual View HDBaseT 2.0
KVM Extender

Long Reach Mode | Dual View

CE620
USB DVI HDBaseT 2.0
KVM Extender

Long Reach Mode

CE611 — Compact size
Mini USB DVI HDBaseT
KVM Extender

CE610A
DVI HDBaseT KVM Extender
with ExtremeUSB®

EXTREME USB®

Comparison

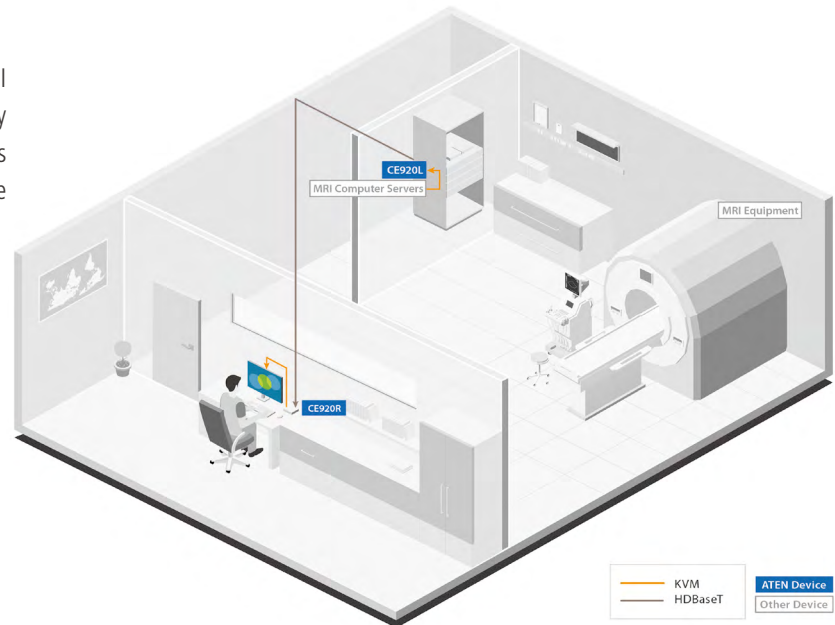| Model	CE920	CE820	CE624	CE620	CE611	CE610A
Interface	DisplayPort / HDBaseT	HDMI / HDBaseT	DVI / HDBaseT			
Unit to Unit	Cat 5e / 6 / 6a x 1					
Inputs to Outputs	1 to 1					
Max. Resolution / Distance	4K@100m 1080p@150m(Long Reach Mode enable)		1920 x 1200@100m 1080p@150m(Long Reach Mode enable)		1920 x 1200@100m 1080p@100m	
HDCP	HDCP 1.4	HDCP 2.2	HDCP 1.4	N/A	N/A	HDCP 1.4
Long Reach Mode (1080p@150m)	Active enable	Active enable	Active enable	Active enable	N/A	Passive enable
Dual View	N/A	N/A	•	N/A	N/A	N/A
Audio	• (DP) • Mic in / Speaker out	• (HDMI) • Mic in / Speaker out	• Mic in / Speaker out	• Mic in / Speaker out	• Mic in / Speaker out	N/A
RS-232 Channel	•	•	•	•	•	N/A
Ethernet	•	•	N/A	N/A	N/A	N/A
USB Channel	•	•	•	•	•	• (40 Mbps)
POH	N/A	N/A	N/A	N/A	N/A	N/A

Healthcare – MRI Diagnostics

A hospital implemented a new, cutting-edge MRI-guided radiation therapy as part of its ongoing development of leading treatments for cancer and brain disorders. It required a reliable extension solution with high-precision video quality and accuracy that would meet the high demands of such critical medical and healthcare applications.

ATEN Solution

By adopting ATEN's HDBaseT KVM Extenders, MRI equipment is accessed and operated with zero latency while uncompressed video with pixel-to-pixel quality is reliably delivered to the operator's room for real-time diagnosis.

CE920 –
USB DisplayPort HDBaseT 2.0 KVM Extender
(4K@100m)

	KVM
	HDBaseT

ATEN Device
Other Device

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Retail – Self-Service Kiosk and Digital Signage

A multinational restaurant chain wanted to enhance its overall service and customer satisfaction by increasing related operational efficiency, reducing customer wait time, and improving the overall in-store experience. This involved the installation of self-service kiosks that automate the order and payment process, and the integration of a digital signage solution to offer interactive advertisements and order notifications.

ATEN Solution

ATEN's HDBaseT KVM Extenders, supporting touch and payment interfaces, allow flexible placement of self-service kiosks on the shop floor while extending to computers located in a secure room. Integration with a digital signage system enabled distribution of interactive content spread across multiple locations throughout the store.
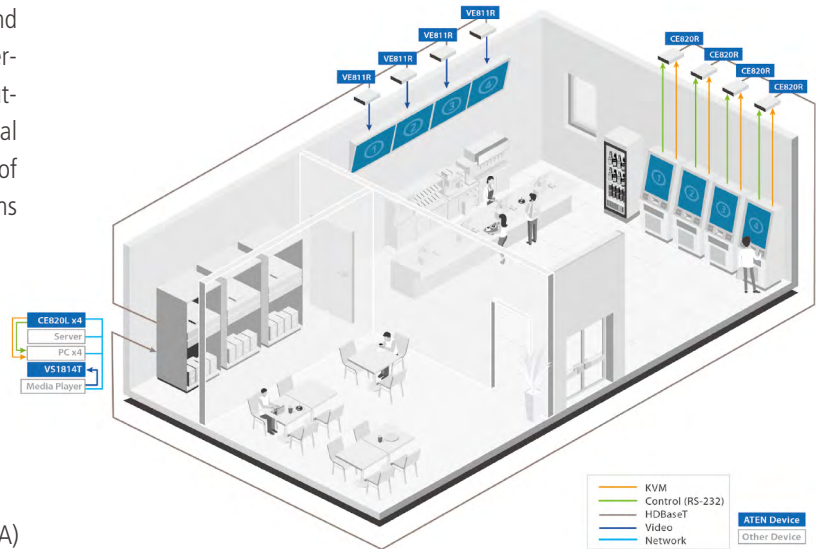
CE820 –
USB HDMI HDBaseT 2.0 KVM Extender (4K@100m)

VS1814T –
4-Port HDMI HDBaseT Splitter (HDBaseT Class A)

VE811R –
HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A)

Government – Security Control Room

A correctional center decided to upgrade its facility to streamline operations and enhance how valuable information can be accessed throughout the facility. This involved long-distance transmission of video with superior quality and control over computers located in the server room from monitoring stations as well as the control room.
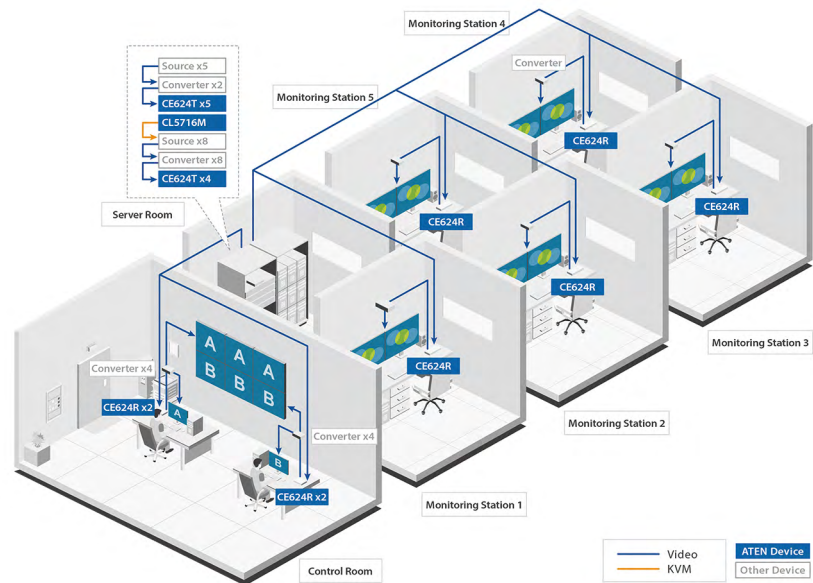
ATEN Solution

The ATEN CE624 HDBaseT 2.0 KVM Extender provides the most reliable long-distance transmission of video, audio, USB and RS-232 signals available on the market. Ideal for applications where convenient remote access at up to 100 meters is required, such as transportation and security control centers, medical facilities, and extended workstations.

CE624 –
USB DVI Dual View HDBaseT 2.0 KVM Extender

CL5716M –
17″ 16-Port PS/2-USB VGA LCD KVM Switch

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Fiber Optic
KVM Extender
Series

Benefits of ATEN Fiber Optic KVM Extenders

ATEN Fiber Optic KVM Extenders utilize single-mode or multi-mode optic fiber cables to extend AV, RS-232, or USB signals at extremely long distances up to 20km, with zero latency as well as resistance to environmental interference.

Uncompressed Video Transmission
Delivers up to 4K x 2K uncompressed video.

Dual-Console Control
Control your system from both the local and the remote USB keyboard, monitor, and mouse consoles.

Extremely Long Distance Extension
Transmits signals at extremely long distances up to 20km.

Extra Reliability & Stability
Strict testing process with 50,000hrs burn-in test and 1,000 times power on/off test.

EMI Resistance
Resistance to electromagnetic interference in the environment enables highly secure signal transmission.

Remote Wake-up PC Function
Allows user to just push a button to remote wake up the PC from Standby Mode.

Due to their imperviousness to electromagnetic interference and capabilities of higher bandwidth and extremely long distance transmissons, Fiber Optic KVM Extenders are extremely beneficial in these mission critical applications:

Military & Aviation

Healthcare

Manufacturing

Fiber Optic KVM Extender Series

CE680

USB DVI Optical KVM Extender
(1920 x 1200@600m)

CE690

USB DVI Optical KVM Extender
(1920 x 1200@20km)

Fiber Optic KVM Extender Series

VE883K1

4K HDMI Optical Extender
(Multi-Mode, 4K@300m)

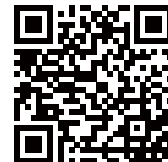## VE883K2

4K HDMI Optical Extender
(Single Mode, 4K@10km)

Features:

• FarSmooth Technology – ATEN's exclusive technology to prevent lagging and freezing by matching the output rates to the input rates and ensure the video display is stable, smooth and identical to the source, particularly in long-distance extension applications where uninterrupted video streams are required.

• Supports Gigabit Ethernet Channel
• Supports USB 2.0, with a maximum transfer rate of 25 Mbps

Comparison

Model	CE690	CE680	VE883K1	VE883K2
Interface	DVI-D (Single Link)	DVI-D (Single Link)	HDMI	HDMI
Unit to Unit	Fiber Optic Cable			
Inputs to Outputs	1 to 1			
Max. Resolution / Distance	1920 x 1200@20km	1920 x 1200@600m	4K@300m	4K@10km
Audio	• Mic in / Speaker out	• Mic in / Speaker out	• HDMI / Stereo	• HDMI / Stereo
USB Touch Panel	•	•	USB2.0 (25 Mbps)	USB2.0 (25 Mbps)
USB Channel	N/A	N/A		
RS-232 Channel	• (DB-9 Female)	• (DB-9 Female)	• (3 Pole, Terminal Block)	• (3 Pole, Terminal Block)
IR Channel	N/A	N/A	•	•
Ethernet Channel	N/A	N/A	•	•
Local Console	•	•	N/A	N/A

ATEN also provides KVM over IP and conventional Cat5 / Cat6 KVM Extenders.
For more ATEN KVM Extenders, visit https://www.aten.com/products/kvm/kvm-extenders/

ATEN
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