Closer to the Action
HDBaseT and Fiber KVM Extenders
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Contributor to the Next Generation 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.

HDBaseT KVM Extender Series
Contributor to the Next Generation of Connectivity

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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.

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

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

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

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

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

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

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

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

Flexible Control
Provides multiple control channels including RS-232, Ethernet, and USB.
HDBaseT KVM Extender Series

**CE920**  
USB DisplayPort HDBaseT 2.0  
KVM Extender

**CE820**  
USB HDMI HDBaseT 2.0  
KVM Extender

**CE624**  
USB DVI Dual View HDBaseT 2.0  
KVM Extender

**CE620**  
USB DVI HDBaseT 2.0  
KVM Extender

**CE611**  
Mini USB DVI HDBaseT 2.0  
KVM Extender

**CE610A**  
DVI HDBaseT KVM Extender  
with ExtremeUSB®

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**HDBaseT KVM Extender Series**

**Benefits of ATEN HDBaseT KVM Extenders**

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- **Delivers up to 4K video quality with uncompressed, pixel-to-pixel accuracy.**
- **Compatibility testing with a multitude of USB peripheral devices.**
- **HDBaseT anti-jamming technology resists signal interference during high-quality video transmissions.**
- **Allows user to simply push a button to remote wake up the PC from Standby Mode.**
- **Mix and match any transmitter and receiver model to convert interfaces while extending KVM signals.**
- **Supports individual 2-channel stereo audio / PCM digital audio for high-quality audio applications.**
- **Strict testing process with 50,000hrs burn-in test and 1,000 times power on/off test.**
- **Built-in 8KV / 15KV ESD protection to prevent device breakdown during instances of power surges.**
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**Uncompressed Video Transmission**

**Outstanding USB Compatibility**

**Anti-jamming Design**

**Remote Wake-up PC Function**

**Flexible Mix and Match**

**Audio Enabled**

**Extra Reliability & Stability**

**Surge Protection**

**Simplified Setup**

**Flexible Control**
Comparison

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

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.

**Healthcare – MRI Diagnostics**

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.

**USB DisplayPort HDBaseT 2.0 KVM Extender**

**ATEN Solution**

**CE920 – Case Study**
Healthcare – MRI Diagnostics
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CE920 –
USB DisplayPort HDBaseT 2.0 KVM Extender (4K@100m)
Case Study

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
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.

Benefits of ATEN Fiber Optic KVM Extenders

- Delivers up to 4K x 2K uncompressed video.
- Uncompressed Video Transmission
- Transmits signals at extremely long distances up to 20km.
- Extremely Long Distance Extension
- Resistance to electromagnetic interference in the environment enables highly secure signal transmission.
- Control your system from both the local and the remote USB keyboard, monitor, and mouse consoles.
- Dual-Console Control
- Strict testing process with 50,000hrs burn-in test and 1,000 times power on/off test.
- Extra Reliability & Stability
- Allows user to just push a button to remote wake up the PC from Standby Mode.
- Remote Wake-up PC Function
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- **4K x 2K Uncompressed Video Transmission**
  Delivers up to 4K x 2K uncompressed video.

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

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

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

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

- **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 transmissions, Fiber Optic KVM Extenders are extremely beneficial in these mission critical applications:
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**USB DVI Optical KVM Extender**

- **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
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**

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

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/](https://www.aten.com/products/kvm/kvm-extenders/)