



CHDBT™ Solution

One Cable, Easier Control

Shape the future of long-distance transmission



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Contributor to the Next Generation of Connectivity

A longtime member of the HDBaseT™ 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 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



AVIT

ATEN's Full Range of HDBaseT Solutions

HDBaseT technology makes the distribution of high-quality multimedia content over a long distance simple and effective without compromising performance or quality. It enables reduction in cable clutter and allows for long-distance signal transmission free from compression and latency.



Simplified Cabling

Implements HDBaseT™ extension technology to connect transmitter and receiver units over one single Cat 6 / 6a cable



Uncompressed UHD and High-Quality Audio

Supports up to uncompressed UHD*, and 4K x 2K, Dolby True HD and DTS HD Master Audio

*Uncompressed True 4K @ 60 Hz 4:4:4 HDMI transmission is supported when using HDBaseT 3.0-compatible devices and Cat 6A U / FTP cables.



Long-Distance Transmission

Delivers uncompressed video & audio using one Cat 6 / 6a cable up to 100-150m



Anti-jamming Design

Resists signal interference during high-quality video transmission



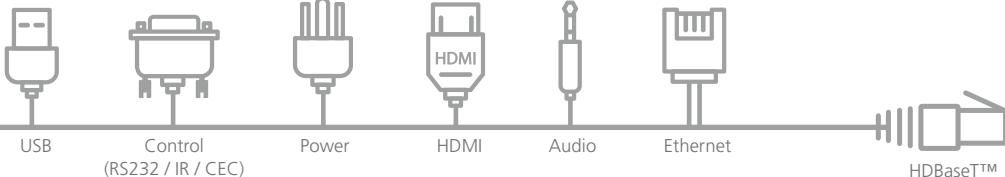
Flexible Control

Provides multiple control signals: CEC, RS-232, Ethernet, IR, and USB 2.0



PoH (Power over HDBaseT)

Supplies power from the Power Source Equipment (PSE) to the Power Device (PD) over long distances via one Cat 6 / 6a cable

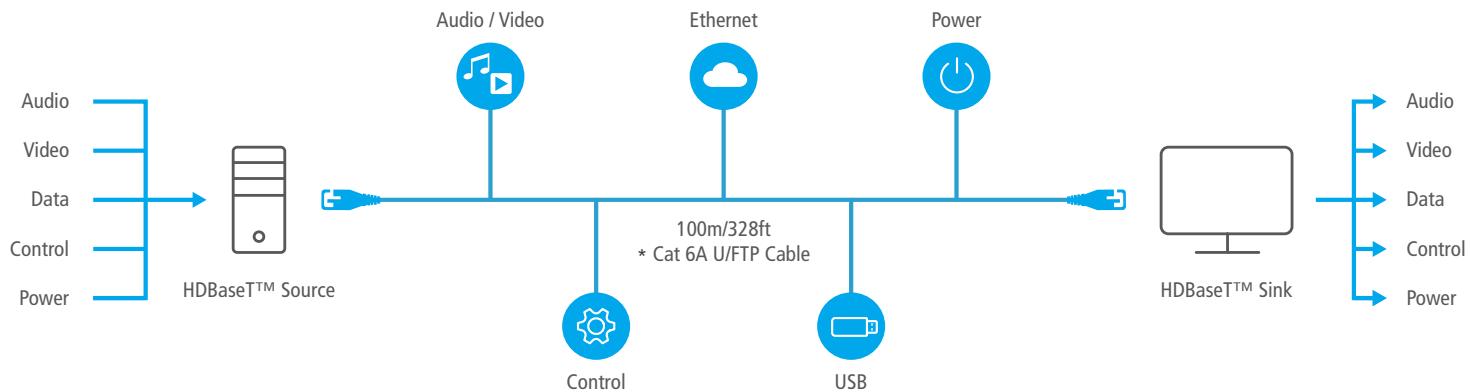




HDBaseT Video Extender Series

Meet the New HDBaseT 3.0 Technology

HDBaseT Spec 3.0 enables long-distance distribution up to 100m and convergence of ultra-high speed uncompressed HDMI 2.0 audio & video, 1Gb Ethernet, USB 2.0, control, and power, with zero latency and one cable to transmit it all.



- HDMI 2.0 4K@60 4:4:4 for up to 100m/328ft over a category cable, supporting all resolutions up to 594MHz
- Support for HDCP2.x and 1.x authentication and encryption
- Native support for 4K@60 Dolby Vision
- 1Gb Ethernet
- Audio – I2S-4
- High Speed USB 2.0

HDBaseT 3.0 (True 4K Up to 100M)

VE1843

True 4K HDMI / USB HDBaseT 3.0 Transceiver



Uncompressed
True 4K



HDBaseT™ 3.0



Audio Embedding
& De-embedding



Multiple Control
Signals
(AV, RS-232, IR,
USB, Ethernet)



Improved
Heat Dissipation



Easy Installation



Up to 100m Transmission over a Cat 6A U / FTP

* Cat 6A U / FTP is the recommended setting. The skewless nature and inter-pair shielding of FTP provides the better near-end crosstalk (NEXT, source end) and far-end crosstalk (FEXT, receiver end) parameters required to achieve the maximum performance and distance.



Front



Rear

Education - University Classroom

Background:

A university in Japan wanted to build a modern classroom where students in the space could easily and clearly focus on the teacher's lessons, no matter where the students were sitting in the large room.

Customer's requirements:

1. Need to record lessons and display them on TV monitors in real time for students who sit at the back of this large classroom.
2. Require true 4K video quality.
3. Remote control of the camera via IR or Ethernet.
4. USB connection for various equipment expansion.

ATEN solution:

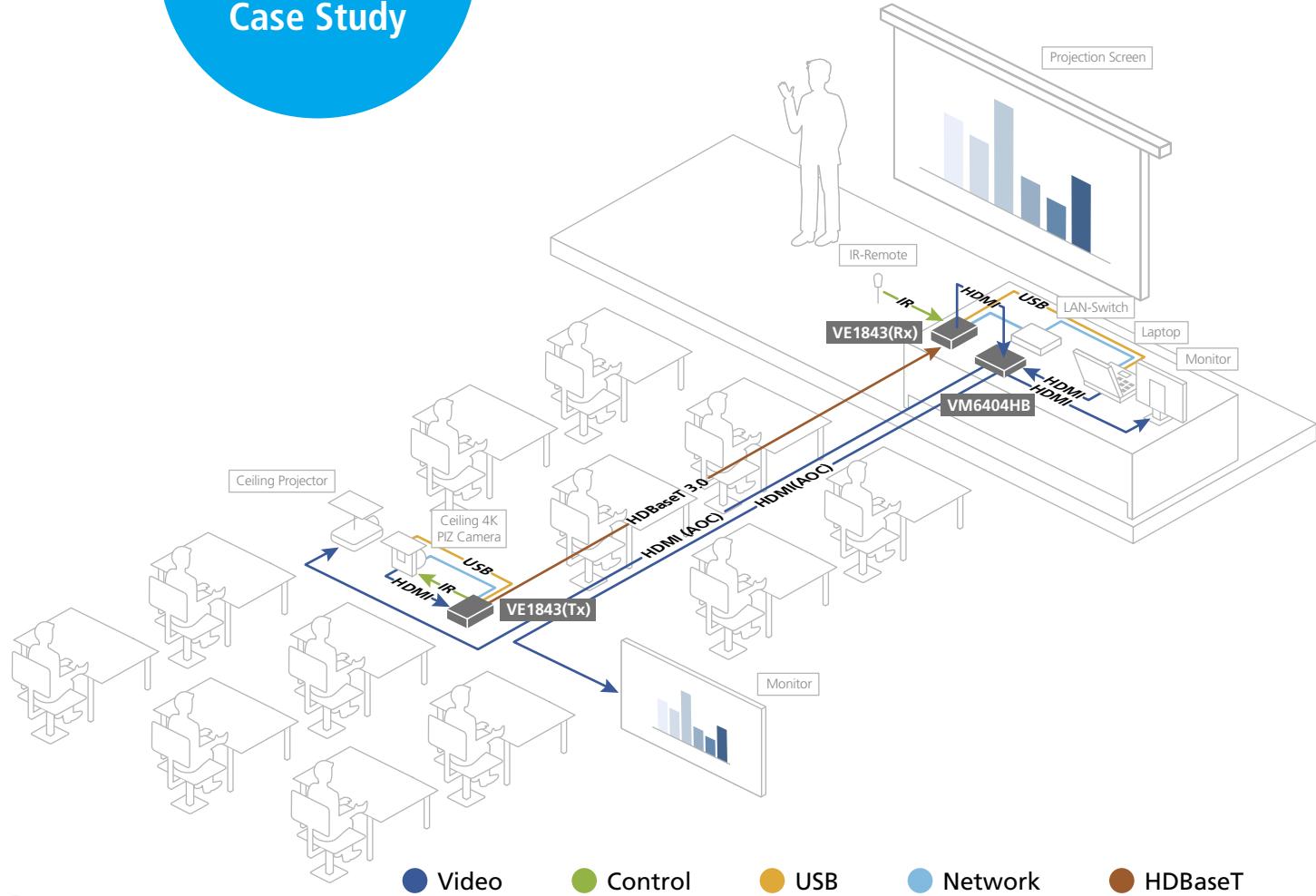
The VE1843 can transmit IR, USB, Ethernet, and 4K HDMI over one cable up to 100m to deliver true 4K.



ATEN products:

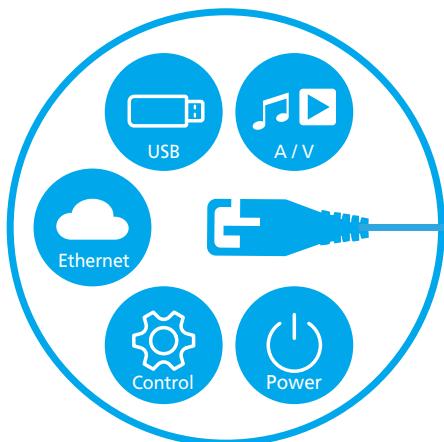
VE1843 - True 4K HDMI / USB HDBaseT 3.0 Transceiver.

Case Study



Various HDBaseT Extenders to Fit All Your Needs

HDBaseT technology is ideal for professional AV installations and provides a simple and cost-effective solution to transmit 4K ultra-high-definition (UHD) signals up to 100 meters. ATEN provides a variety of HDBaseT extenders for commercial-grade Pro AV installations across small / mid / large sized areas.



HDBaseT Link	HDBaseT Link Rate	HDMI Data Rate	HDR Formats Supported	ATEN Models (Example)
1.0 / 2.0 Uncompressed	8 Gbps	10 Gbps	4K UHD 24-30 fps 4:2:0 / 4:2:2	1.0: VE811 / 1812 2.0: CE820/920
1.0 / 2.0 with DSC Compressed	8 Gbps	11-18 Gbps	4K UHD 24-30 fps 4:4:4 4K UHD 48-60 fps 4:2:0 / 4:2:2	1.0: VE1830
3.0 Uncompressed	16 Gbps	18 Gbps	4K UHD 24-30 fps 4:4:4 4K UHD 48-60 fps 4:2:0 / 4:2:2	VE1843

HDBaseT Class A (Up to 100M)

VE3912T

Display Port / HDMI / VGA Switch with HDBaseT Transmitter



VE2812AT

HDMI & VGA HDBaseT Transmitter with PoH



VE2812R

HDMI HDBaseT Receiver with Audio De-Embedding



VE1812

HDMI HDBaseT Extender with PoH



VE816R

4K HDMI HDBaseT Receiver with Scaler



HDBaseT Class A (Up to 100M)

VE814A

HDMI HDBaseT Extender with Dual Output



Long Reach
Mode



VE812

HDMI HDBaseT Extender



VE813A

HDMI / USB HDBaseT Extender



VE811

Compact size

HDMI HDBaseT Extender



Long Reach
Mode



HDBaseT Class B (4K Up to 40M)

VE1830

True 4K HDMI HDBaseT -Lite Extender



VE901

DisplayPort HDBaseT-Lite Extender



VE802

HDMI HDBaseT-Lite Extender with PoH



VE805R

HDMI HDBaseT-Lite Receiver with Scaler



VE801

HDMI HDBaseT-Lite Extender



VE601

DVI HDBaseT-Lite Extender



Corporate - Meeting Room

Background:

A company wanted to create a new large meeting room as a space dedicated to more formal meetings, team member brainstorming, and also video conferencing in a hybrid workplace.

Customer's requirements:

1. Support diverse video interfaces and flexible switching between members in the large meeting room.
2. Capabilities for remote video conferencing when needed.

ATEN solution:

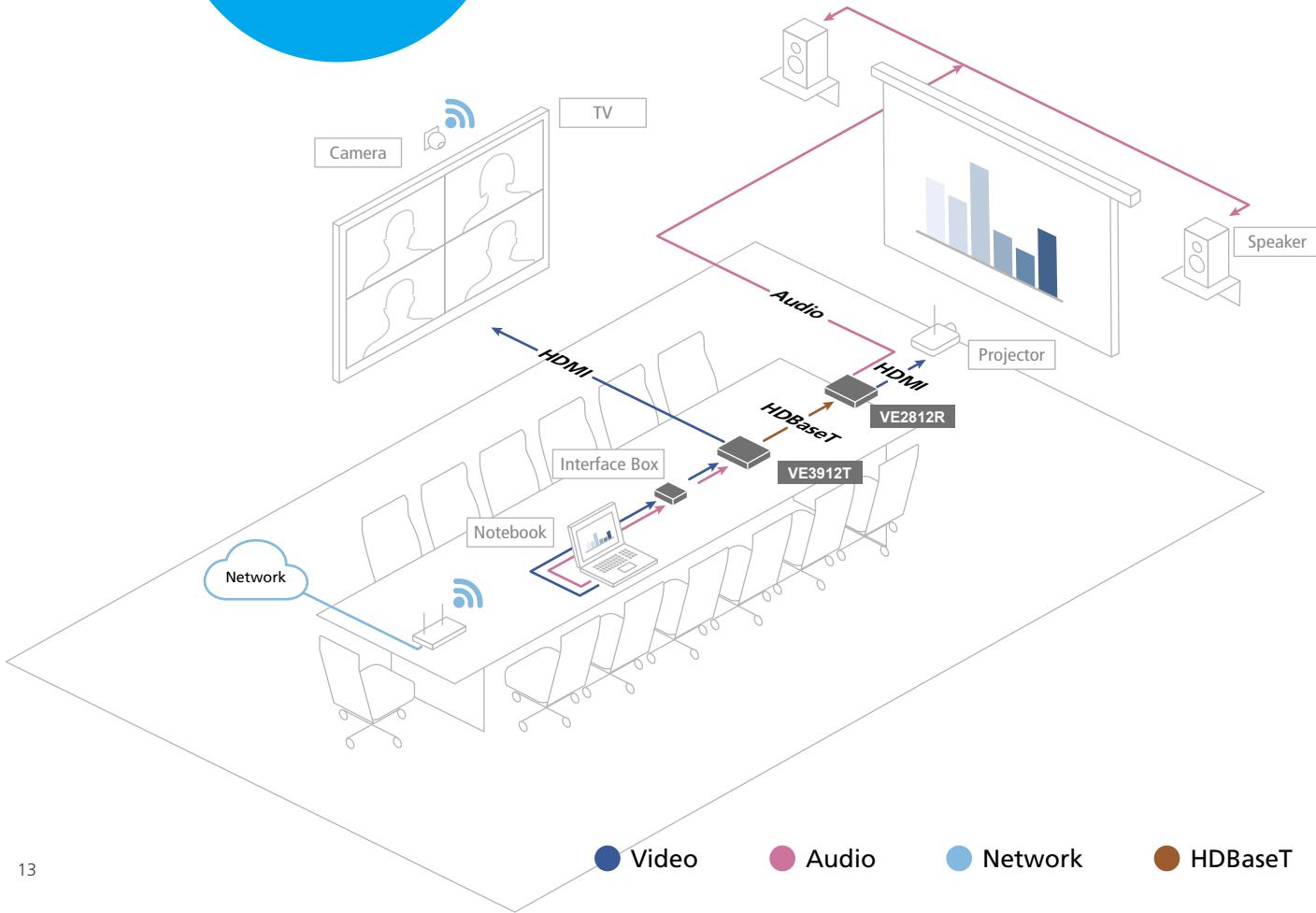
1. Provides convenient connection for DisplayPort, HDMI, and VGA-equipped BYOB devices.
2. The space can be flexibly adjusted for remote video conferencing utilizing the local output for the in-room display.
3. Pairs with ATEN HDBaseT™ receivers to support needed long-distance connections.

ATEN products:

1. VE3912T - Display Port / HDMI / VGA Switch with HDBaseT Transmitter
2. VE2812R - HDMI HDBaseT Receiver with Audio De-Embedding



Case Study



A top-down photograph of a meeting room. Five people are visible around a white conference table. On the table, there is a black laptop, a black smartphone, and a white rectangular wall plate extender with a small screen and two buttons. The wall plate extender is positioned between the laptop and the smartphone.

HDBaseT Wall Plate Extender Series

Why Choose ATEN Wall Plate Extenders?

The convenience and elegance that only wall plate extenders provide will enable you to immerse your AV extensions for any application into any environment, such as on walls or tables, to merge with all kinds of room decor while concealing cables and other equipment out of sight.



Convenient Installation

Support for US/decora, EU/MK wall plates offers comprehensive options across different regions



Convenient Placement

Flexibly place signal input and output connections exactly where they are needed



Conceal Cabling

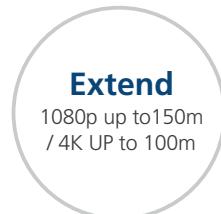
Hide bulky cabling and other installed equipment out of sight



Complimentary Design

Mount on any surface while simply blending in with the environment

Get the Most out of a Hybrid 3-in-1 Solution!



VE2812AEUT / VE2812AUST

HDMI & VGA HDBaseT Transmitter with
EU / US Wall Plate / PoH



- Extend HDMI or VGA signals with superior video quality:
 - HDMI: 4K / 1080p up to 100m via a Cat 5e / 6 / 6a cable
 - VGA: 1600 x 1200 and 1920 x 1200 up to 100m via a Cat 5e / 6 / 6e or ATEN 2L-2910 Cat6 cable
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2
- HDBaseT Long Reach Mode up to 1080p @150m
- Supports Auto Switch
- IR / RS-232 Channel
- Supports Power over HDBaseT (PoH)

VE1801AUST / VE1801AEUT

HDMI HDBaseT-Lite Transmitter with
US / EU Wall Plate / PoH



VE1901AEUT / VE1901AUST

DisplayPort HDBaseT-Lite Transmitter
with EU / US Wall Plate / PoH



Education - Lecture Hall

Background:

This lecture hall was designed for training and engaging with students for course discussion in real time to improve the interactivity for corporate or education usage.

Customer's requirements:

1. Students can share their content on the main display; requires multiple interfaces for different laptops' ports.
2. A main display for presentations and a secondary display for teachers' use, and for the teacher to use both their own laptop or existing computer.

ATEN solution:

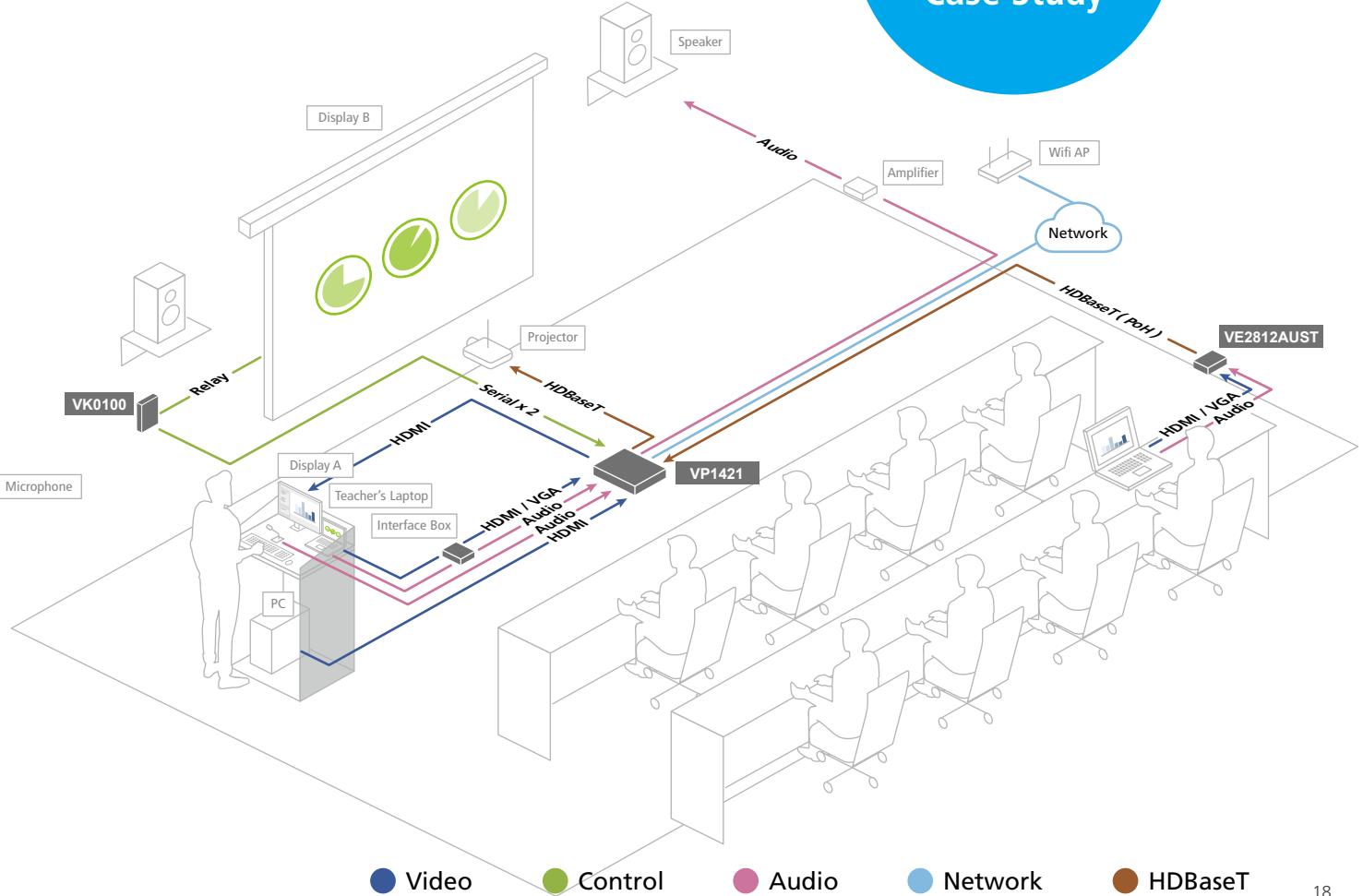
1. Students can present content easily without any interface limitations via VE2812AUST.
2. Save time and installation costs by using HDBaseT.
3. VP1421 Multi-in-one presentation switch allows for connection of up to 4 sources, including mic input, with smooth switching between sources.
4. Just one click is all it takes to choose a source with VK0100; it's easy enough for anyone to do.



ATEN products:

1. VE2812AUST - HDMI & VGA HDBaseT Transmitter with EU / US Wall Plate / PoH
2. VP1421 - 4 x 2 True 4K Presentation Matrix Switch with Scaling, DSP, and HDBaseT-Lite
3. VK0100 - ATEN Control System - 8-button Control Pad

Case Study





HDBaseT KVM Extender Series

Benefits of ATEN HDBaseT KVM Extenders

ATEN HDBaseT KVM extenders provide a simple and efficient solution for transmitting Ultra HD signals, audio, 100Mb Ethernet, power, and control signals over a single cable up to 150m. A wide range of models are available, with video interface support for DisplayPort, HDMI, and DVI.



Simplified Cabling

Implements HDBaseT extension technology to connect transmitter and receiver units over one single Cat 6 / 6a cable



Long-Distance Transmission

Delivers uncompressed 4K video & audio using one Cat 6 / 6a cable up to 100 - 150 m



Flexible Control

Provides multiple control signals: CEC, RS-232, Ethernet, and USB2.0



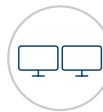
Outstanding USB Compatibility

Tested compatible with a multitude of USB peripheral devices



Anti-jamming Design

Resists signal interference during high-quality video transmission



Dual View

Allows dual view DisplayPort access to a computer and KVM control from a remote console

Zero Latency Signal Extension

ATEN HDBaseT KVM Extenders allow you to connect and control keyboard, video, and mouse signals from computers located up to 150m away from your console. USB and RS-232 connectivity enables applications that require touch panel support and the integration of additional devices.

CE924

USB DisplayPort Dual View HDBaseT 2.0 KVM Extender



CE624

USB DVI Dual View HDBaseT 2.0 KVM Extender



CE610A

DVI HDBaseT KVM Extender with ExtremeUSB®



CE920

USB DisplayPort HDBaseT 2.0 KVM Extender



CE820

USB HDMI HDBaseT 2.0 KVM Extender



CE620

USB DVI HDBaseT 2.0 KVM Extender



CE611

Mini USB DVI HDBaseT KVM Extender



Retail - Self-Service Kiosks and Digital Signage

Background:

A major retailer with multiple outlets in several locations 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.

Customer's requirements:

1. High-quality HDMI and control signal transmission over long distances throughout large stores with multiple floors.
2. Needed to offer interactive advertising, queue management, and order notifications to improve the in-store experience for customers.

ATEN solution:

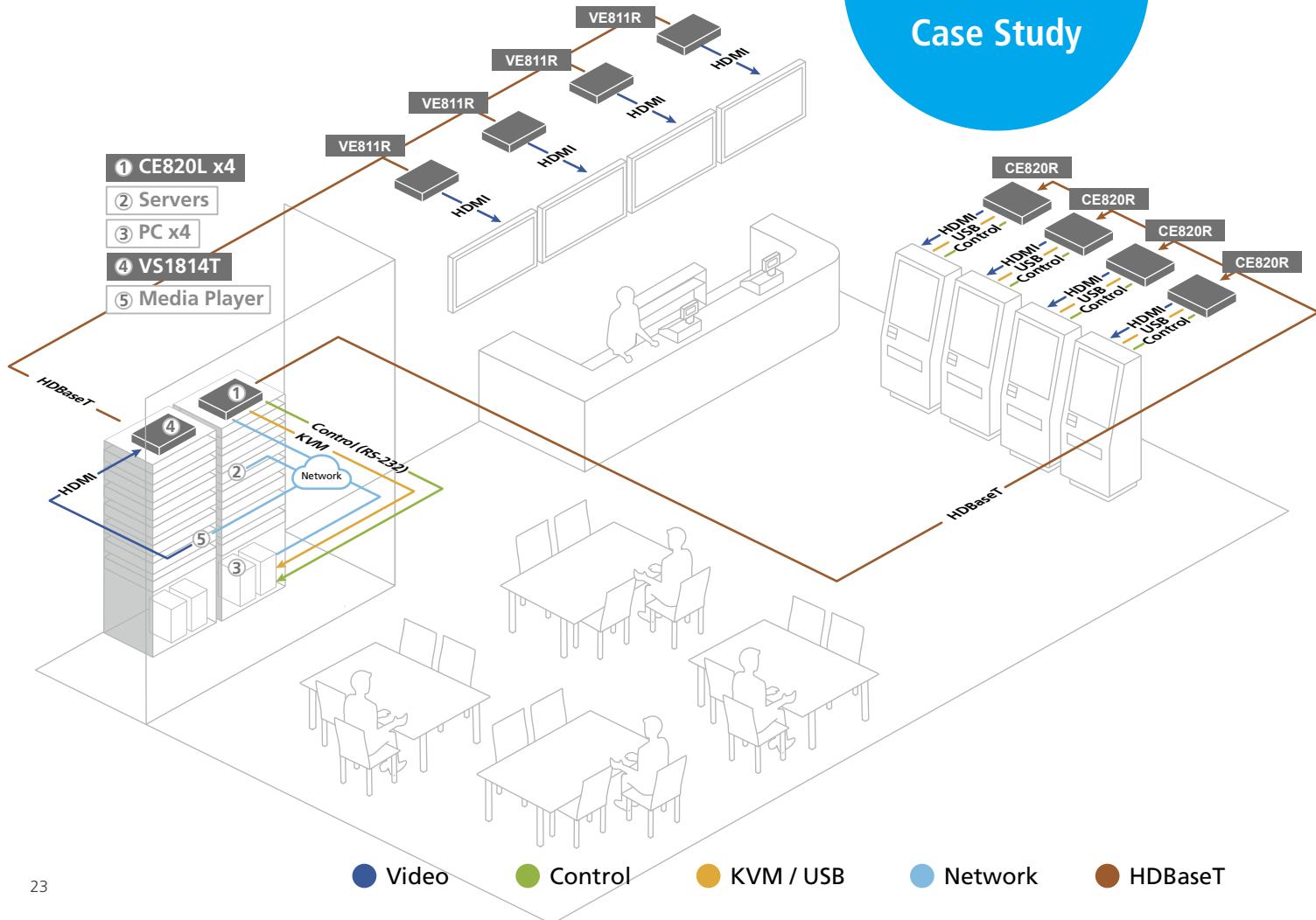
1. Allows flexible placement of self-service kiosks on the shop floor while extending 4K up to 100 m to computers located in a secure room.
2. With RS232, IR, Ethernet, and USB 2.0 extended over a single cable, solution supports touchscreens and payment interfaces via HDBaseT solution.
3. Enabled distribution of interactive content spread across multiple locations throughout the store for engaging promotion and effective queue management.



ATEN products:

1. CE820 –USB HDMI HDBaseT 2.0 KVM Extender (4K@100m)
2. VS1814T – 4-Port HDMI HDBaseT™ Splitter (HDBaseT Class A)
3. VE811R –HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A)

Case Study





HDBaseT Matrix with Video Wall Solutions

Seamless, Tear-free Video Walls

ATEN HDBaseT Matrix switches and HDBaseT receivers with scaler ensure long distance video transmission and provide seamless switching and scaling functionality, giving a flawless video wall experience.

VM3200 / VM1600A

32x32 / 16x16 Modular Matrix Switch

VM7514 / VM8514

Compatible HDBaseT I/O Boards

4K



VM3909H / VM3404H

9x9 / 4x4 HDMI HDBaseT-Lite Matrix Switch

4K



VE816R

4K HDMI HDBaseT Receiver with Scaler



HDCP 2.2



Video Wall



Seamless Switch



FrameSync

4K



VE805R

HDMI HDBaseT-Lite Receiver with Scaler



HDCP 1.4



Video Wall



Seamless Switch



Broadcasting & Media - Artear, Argentina

Background:

Artear, Argentina's most prolific television network, built a state-of-the-art newsroom to keep setting the pace for news broadcasting and creative, high-quality content.

Customer's requirements:

1. A flexible and customizable solution with minimal lag when switching.
2. To switch among different video wall layouts and content sources easily and quickly.
3. Power stability and redundancy that is critical for a 24-7 newsroom environment.
4. To control a large 10 x 6 video wall and a smaller 5 x 5 video wall with 16 different SDI input sources.
5. To extend the 5 x 5 video wall content up to 70 meters to account for the design architecture of the newsroom.



Case Study

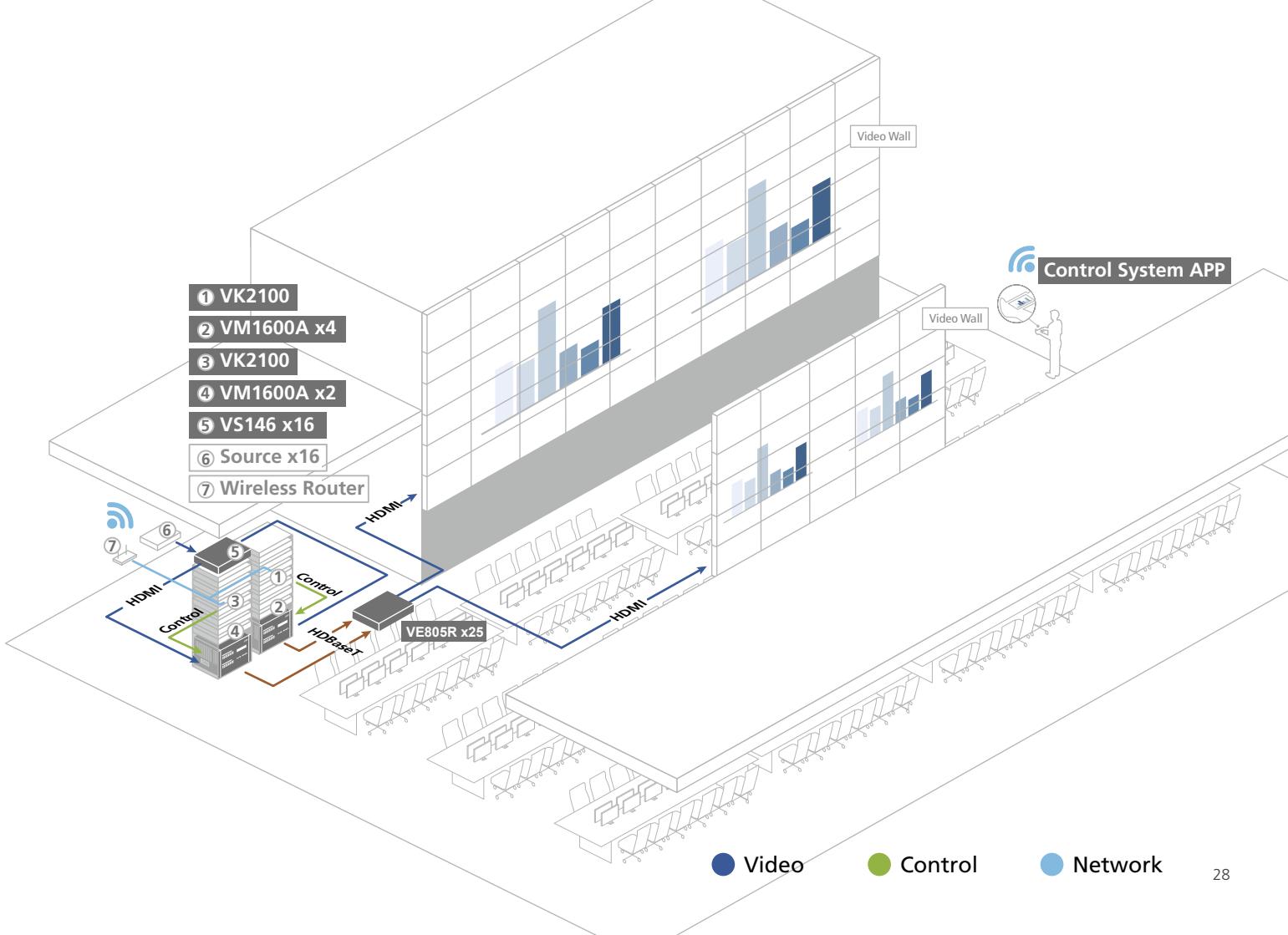
ATEN solution:

1. Video Matrix Switches integrate different video input and output interfaces and encode the various formats to deliver customized flexibility and video wall configuration options.
2. ATEN's Seamless Switch™ technology delivers stable and reliable continuous video streams and instant real-time source switching without delays.
3. Two power slots on the VM1600A that can connect to two different power supplies provide the reliable power redundancy that is critical for the 24-7 operations of a newsroom.
4. ATEN's Control System connects all the hardware devices in the news room to provide centralized control directly and effortlessly via a PC, laptop, or any mobile device.
5. The support for extended HDBaseT transmission over a single Cat 6/6a cable ensures that the solution is easily adaptable to the physical architecture of the newsroom while providing seamless switching and video wall functionality.



ATEN products:

1. VM1600A – 16 x 16 Modular Matrix Switch
2. VE805R – HDMI HDBaseT-Lite Receiver with Scaler
3. VK2100 – ATEN Control System - Control Box
4. VS146 – 6-Port 3G-SDI Splitter





HDBaseT
Media
Distribution

High Quality Media Distribution

ATEN HDBaseT Media Distribution solutions are economical ways to send high-quality HDMI content over a Cat 5 / 6 cable to multiple displays over long distances from a single input source.

VS1814T / VS1818T

4-Port / 8-Port HDMI HDBaseT Splitter



VE801R

HDMI HDBaseT-Lite Receiver
(4K@40m)



VE812R

HDMI HDBaseT Receiver
(4K@100m)



VE811R

HDMI HDBaseT Receiver
(Supports Long Reach Mode – up to 150m)



Transportation - Train Station

Background:

One of the biggest transportation hubs in the city of Osaka, Japan wanted to distribute eye-catching advertisements and important scheduling information to as many passengers as possible.

Customer's requirements:

1. Required 4K content broadcasted to multiple displays mounted vertically on 7 pillars throughout the station.
2. Transmission cloned simultaneously to more than 30 screens that are up to 100 meters apart.
3. Easy to manage and maintain.

ATEN solution:

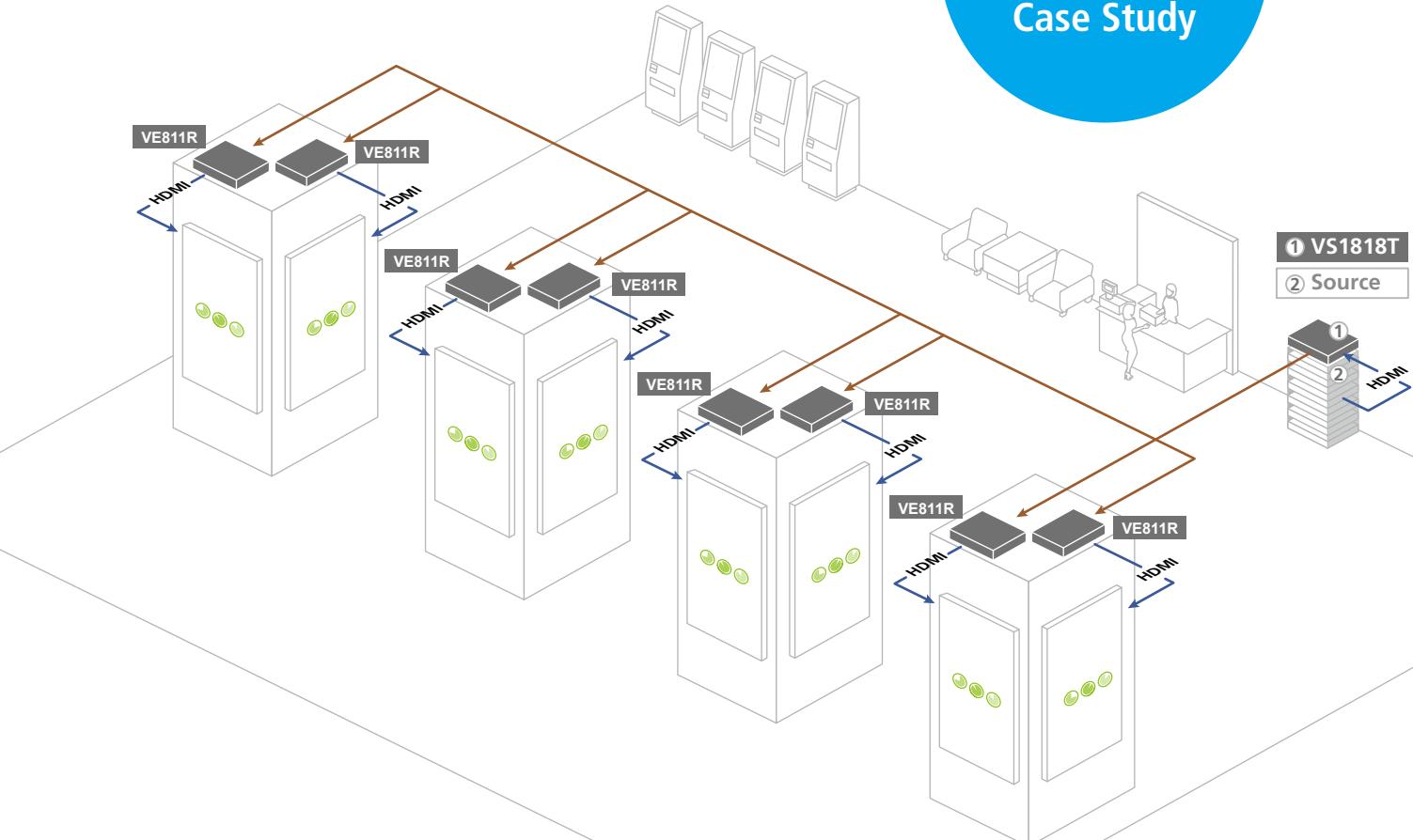
1. 4K video can be transmitted simultaneously to all 24 displays installed the pillars without delay.
2. Simple wiring to connect the HDMI distribution transmitter (VS1818T) and receiver (VE811R) with a category 6 cable.
3. Video signals can be transmitted from one signage player to up to eight displays to minimize the number of installed devices to be managed.



ATEN products:

1. VS1818T – 8-port HDMI HDBaseT Splitter
2. VE811R – HDMI HDBaseT Receiver
(4K@100m)

Case Study



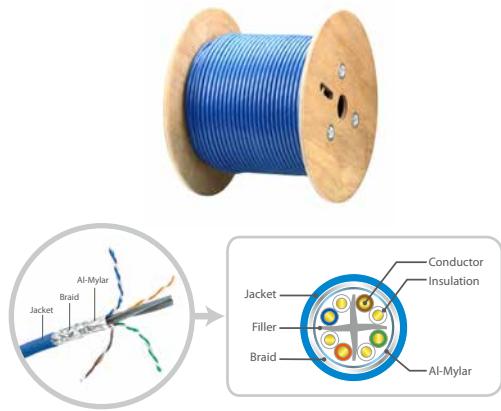
● Video

● HDBaseT

Accessories

2L-2910

305M HDBaseT SF/UTP Cat 6 Cable



- Designed to reduce cross talk
- Optimized for distributing multiple digital signals – HD video, audio, Ethernet, power and control
- Verified to meet performance requirements set by HDBaseT™ Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission

2L-7D05H / 2L-7D03H

5 m / 3 m High Speed HDMI Cable with Ethernet



2L-7D02H

1.8 m High Speed HDMI Cable with Ethernet



HDBaseT Installation Guide

For a problem-free HDBaseT installation experience, be sure to get the Implementation Guide.



Product Comparison – video extender series

Connection	HDBaseT 3.0		HDBaseT (Class A)*						
Video Interface	HDMI	DisplayPort & HDMI & VGA	HDMI	HDMI & VGA	HDMI	HDMI	HDMI	HDMI	HDMI
Model	VE1843	VE3912T	VE816R	VE2812AT	VE2812R	VE814A	VE813A	VE811	
Inputs to Outputs	1 to 1	3 Inputs, 1 Local Output	1 Output	2 Inputs	1 output	1 Local Output Dual Display	1 to 1	1 to 1	
Max. Resolution / Distance	True 4K @100m	4K@100m; 1080p@100m; 1920 x1200@100m	4K@100m; 1080p@100m; 1080p@100m	4K@100m; 1080p@100m; 1920 x1200@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m
HDR	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDCP	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Long Reach Mode**	N/A	• (Active)	• (Passive)	• (Active)	• (Active)	• (Active)	• (Passive)	• (Active)	
Audio	• (HDMI / Stereo)	• (HDMI / Stereo / DisplayPort)	• (HDMI)	• (HDMI / Stereo)	• (HDMI / Stereo / Coaxial)	• (HDMI)	• (HDMI)	• (HDMI)	
RS-232 Channel	•	•	•	•	•	•	N/A	N/A	
IR Channel	•	•	•	•	•	•	N/A	N/A	
USB Channel	•	N/A	N/A	N/A	N/A	N/A	• (USB2.0)	N/A	
Ethernet Channel	•	N/A	N/A	N/A	N/A	•	N/A	N/A	
PoH	N/A	• (PD)	N/A	• (PD)	N/A	N/A	N/A	N/A	
Scaler	N/A	N/A	•	N/A	N/A	N/A	N/A	N/A	

Connection	HDBaseT (Class A)*		HDBaseT (Class B)*				
Video Interface	HDMI	HDMI	HDMI	HDMI	HDMI	DisplayPort	DVI
Model	VE1812	VE812	VE1830	VE805R	VE801 / VE802	VE901	VE601
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 output	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	True 4K@35m; 1080p@70m	1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	1920 x 1200@40m; 1080p@70m
HDR	N/A	N/A	•	N/A	N/A	N/A	N/A
HDCP	2.2	2.2	2.2	1.4	2.2	Compatible	Compatible
Long Reach Mode**	• (Active)	• (Passive)	N/A	N/A	N/A	N/A	N/A
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (DisplayPort)	N/A
RS-232 Channel	•	N/A	•	•	• (VE802)	N/A	N/A
IR Channel	•	N/A	N/A	•	• (VE802)	N/A	N/A
USB Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethernet Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PoH	PSE: VE1812T PD: VE1812R	N/A	POC	N/A	PSE: VE802T PD: VE802R	N/A	N/A
Scaler	N/A	N/A	N/A	•	N/A	N/A	N/A

Product Comparison – wall plate extender series

Connection	HDBaseT (Class A)*		HDBaseT (Class B)*		HDBaseT (Class B)*	
Video Interface	HDMI + VGA		HDMI		DisplayPort	
Type	EU / MK	US	MK / EU	US	MK / EU	US
Model	VE2812AEUT	VE2812AUST	VE1801AEUT	VE1801AUST	VE1901AEUT	VE1901AUST
Inputs to Outputs	2 inputs	2 inputs	1 input	1 input	1 input	1 input
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m
HDCP	2.2	2.2	2.2	2.2	Compatible	Compatible
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI)	• (HDMI)	• (DisplayPort)	• (DisplayPort)
Long Reach Mode**	• (Active)	• (Active)	N/A	N/A	N/A	N/A
RS-232 Channel	•	•	•	•	•	•
IR Channel	•	•	N/A	N/A	N/A	N/A
PoH	• (PD)	• (PD)	• (PD)	• (PD)	• (PD)	• (PD)

Suggested ATEN Receivers

Model	VE1812R	VE814AR	VE811R	VE801R	VE802R	VE601R	VE901R	
Video Output	HDMI	HDMI Dual Output	HDMI	HDMI	HDMI	DVI	DisplayPort	
IR / RS-232	•	•	N/A	N/A	•	N/A	N/A	
HDBaseT Class	HDBaseT 1.0 Class A			HDBaseT 1.0 Class B				
Transmission Distance	4K up to 100m; 1080p up to 150m (Long Reach mode enable)			4K up to 40m; 1080p up to 70m				
Long Reach Mode	•			N/A				

Product Comparison – KVM extender series

Model No.		CE924	CE920	CE820	CE624	CE620	CE611	CE610A
Distance		Standard: 100 m Long Reach Mode: 150 m					100 m	100 m
HDBaseT		HDBaseT 2.0	HDBaseT 2.0	HDBaseT 2.0	HDBaseT 2.0	HDBaseT 2.0	HDBaseT	HDBaseT
Interface	Unit to Unit	Cat 6 / 6a / 2L-2910 x 1			Cat 6 / 6a / 2L-2910 x 1		Cat 6 / 6a / 2L-2910 x 1	Cat 6 / 6a / 2L-2910 x 1
	Keyboard, Mouse	USB	USB	USB	USB	USB	USB	USB
	Video	DisplayPort	DisplayPort	HDMI	DVI-D (Single Link)	DVI-D (Single Link)	DVI-D (Single Link)	DVI-D (Single Link)
Dual View		•	N/A	N/A	•	N/A	N/A	N/A
Audio		• (DisplayPort / Stereo)	• (DisplayPort / Stereo)	• (HDMI / Stereo)	• (Stereo)	• (Stereo)	• (Stereo)	N/A
USB Channel		•	•	•	•	•	•	•
Ethernet Channel		N/A	•	•	N/A	N/A	N/A	N/A
RS-232 Channel		•	•	•	•	•	•	N/A

Memo

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