Connect Further, Control Easier

HDBaseT Solutions

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 A/V 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 nearly four decades 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
  - Modualr Matrix Switches
  - Video Matrix Switches
  - Video Splitters
  - Video Extenders
  - KVM Extenders

HDBT™ ASE

AV IT meets

Less is More with HDBaseT

HDBaseT technology is ideal for professional A/V installations and provides a simple and cost-effective solution to transmit 4K ultra high definition (UHD) signals up to 100 meters.

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

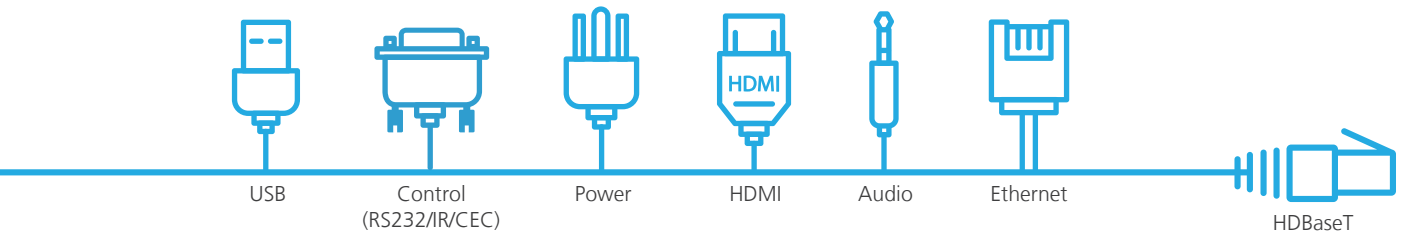
Ultra HD and High Quality Audio
Supports Full HD, 3D and 4K x 2K, Dolby True HD and DTS HD Master Audio

Long Distance Transmission
Delivers uncompressed video & audio using one Cat 6/6a cable up to 100~150 m

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

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 Matrix with Video Wall Solutions

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 / VM1600
32x32 / 16x16 Modular Matrix Switch

VM7514 / VM8514
Compatible HDBaseT I/O Boards

VM3909H / VM3404H
9x9 / 4x4 HDMI HDBaseT-Lite Matrix Switch

VE805R
HDMI HDBaseT-Lite Receiver with Scaler

HDCP 1.4 | Video Wall | Seamless Switch

VE816R
4K HDMI HDBaseT Receiver with Scaler

HDCP 2.2 | Video Wall | Seamless Switch | 4K

C5N LAS NOTICIAS DEL DÍA
NUEVO ROUND ENTRE PEÑA Y KICILLOF
ENTRADERA EN LA CASA DE STOLBIZER
RX 1 FON 1
RX2 FON 2
RX6 FON 6
RX5 FON 5
RX 9 FON 9
CONV 4 MOCH 5 FON 15
RX 12 acto massa
RX 15
MOCH 1 FON 11
MOCH 2 FON 12
RX 15 DIPUTADOS
CONV 1 BRASIL
APTN
REUTERS
CH 12 URUGUAY
CONV 11 DIRECTV
CONV 12 DIRECTV
CONV 13 CV 1
CONV 14 CV 2
Dejero
SENADO ARGENTINA

HDBaseT Media Distribution Solutions

An economical way 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

4K

+

VE801R

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

HDCP 2.2 4K

VE812R

HDMI HDBaseT Receiver (4K@100m)

HDCP 2.2 4K

VE811R

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

HDCP 2.2 Long Reach Mode 4K

HDBaseT Video Extender Series

HDBaseT 2.0 (Up to 100M)

VE1832 Coming Soon

True 4K HDMI/USB HDBaseT 2.0 Extender

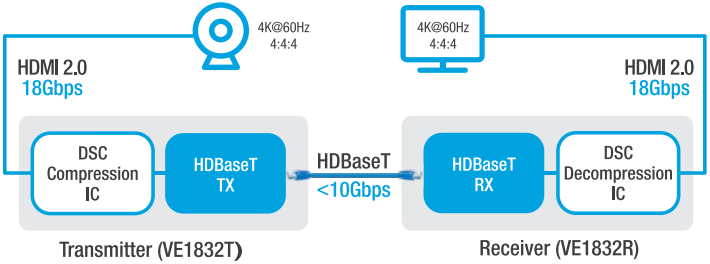
Long Reach Mode | HDCP 2.2

Extend True 4K video via single cat 6 cable up to 100 meters by Display Stream Compression (DSC) technology

Support Independent Stereo & SPDIF Toslink and Coaxial audio I/O

Display Stream Compression (DSC)

- VESA standard for visually-lossless compression
- Video is compressed line by line, meaning very low latency
- Very light compression ratio of 2:1 or 3:1



HDBaseT Class A (Up to 100M)

VE811 Compact size

HDMI HDBaseT Extender

Long Reach Mode | HDCP 2.2 | 4K

VE812

HDMI HDBaseT Extender

HDCP 2.2 | 4K

VE813A

HDMI / USB HDBaseT Extender

HDCP 2.2 | EXTREME USB® | 4K

VE814A

HDMI HDBaseT Extender with Dual Output

Long Reach Mode | HDCP 2.2 | 4K

VE816R

4K HDMI HDBaseT Receiver with Scaler

HDCP 2.2 | Video Wall | Seamless Switch | 4K

VE1812

HDMI HDBaseT Extender with POH

Long Reach Mode | HDCP 2.2 | POH | 4K

VE2812T

HDMI & VGA HDBaseT Transmitter

HDCP 2.2 | Auto Switching | Long Reach Mode | 4K

HDBaseT Class B (Up to 70M)

VE801
HDMI HDBaseT-Lite Extender

HDCP 2.2 4K

VE802
HDMI HDBaseT-Lite Extender with POH

HDCP 2.2 POH 4K

VE805R
HDMI HDBaseT-Lite Receiver with Scaler

HDCP 1.4 Video Wall Seamless Switch

VE901
DisplayPort HDBaseT-Lite Extender

4K

VE601
DVI HDBaseT-Lite Extender

Comparison

Function	VE601	VE801	VE802	VE901	VE805R	VE811	VE812	VE813A	VE814A	VE816R	VE1812	VE2812T
Video Interface	DVI	HDMI	HDMI	DP	HDMI	HDMI	HDMI	HDMI	HDMI x2	HDMI	HDMI	HDMI + VGA
HDBaseT Class	HDBaseT 1.0 Class B					HDBaseT 1.0 Class A						
Distance	1080P@ 70m (max.) 1920 x1200@ 40m (max.)	1080P@ 70m (max.) 4K@ 40m (max.)			1080P@ 70m (max.)	1080P@ 100m (max.) 4K@ 100m (max.)						
HDCP	HDCP 1.4	HDCP 2.2		HDCP 1.4		HDCP 2.2						
Long Reach	Not Supported					Active enable	Passive enable	Passive enable	Active enable	Passive enable	Active enable	Active enable
Local Output	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•	N/A	N/A	N/A
Audio	N/A	• (HDMI)	• (HDMI)	• (DP)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI) (Stereo)
Full range IR/ RS232	N/A	N/A	•	N/A	•	N/A	N/A	N/A	•	•	•	•
Ethernet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•	N/A	N/A	N/A
USB 2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•	N/A	N/A	N/A	N/A
POH	N/A	N/A	•	N/A	N/A	N/A	N/A	N/A	N/A	N/A	•	N/A
Scalar	N/A	N/A	N/A	N/A	•	N/A	N/A	N/A	N/A	•	N/A	N/A

HDBaseT KVM Extender Series

CE920 Coming Soon

USB DisplayPort HDBaseT 2.0 KVM Extender

Long Reach Mode | 4K

CE820 Coming Soon

USB HDMI HDBaseT 2.0 KVM Extender

Long Reach Mode | HDCP 2.2 | 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

CE610A

DVI HDBaseT KVM Extender with ExtremeUSB®

EXTREME USB®

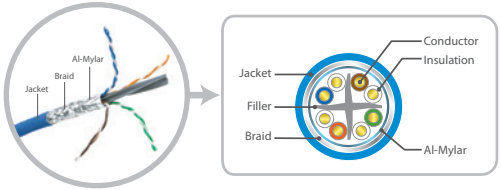
Comparison

Model	CE820	CE920	CE624	CE620	CE610A
Interface	HDMI / HDBaseT	DisplayPort / HDBaseT	DVI / HDBaseT		
Unit to Unit	Cat 5e / 6 / 6a x 1				
Inputs to Outputs	1 to 1				
Resolution / Distance @Cat 6a	4K@ 100m / 1080p@ 100m		1920 x 1200@ 100m / 1080p@ 100m		
HDCP	HDCP 2.2	HDCP 1.4	HDCP 1.4	N/A	HDCP 1.4
Long Reach Mode(1080p@500 ft)	Active enable	Active enable	Active enable	Active enable	Passive enable
Dual View	N/A	N/A	•	N/A	N/A
Audio	• (HDMI) • Mic in / Speaker out	• (DP) • 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
USB Channel	•	•	•	•	• (40 Mbps)
POH	N/A	N/A	N/A	N/A	N/A

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

5m / 3m High Speed HDMI Cable with Ethernet

2L-7D02H

1.8M High Speed HDMI Cable with Ethernet

HDBaseT Installation Guide

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

ATEN HDBaseT Solutions in Action

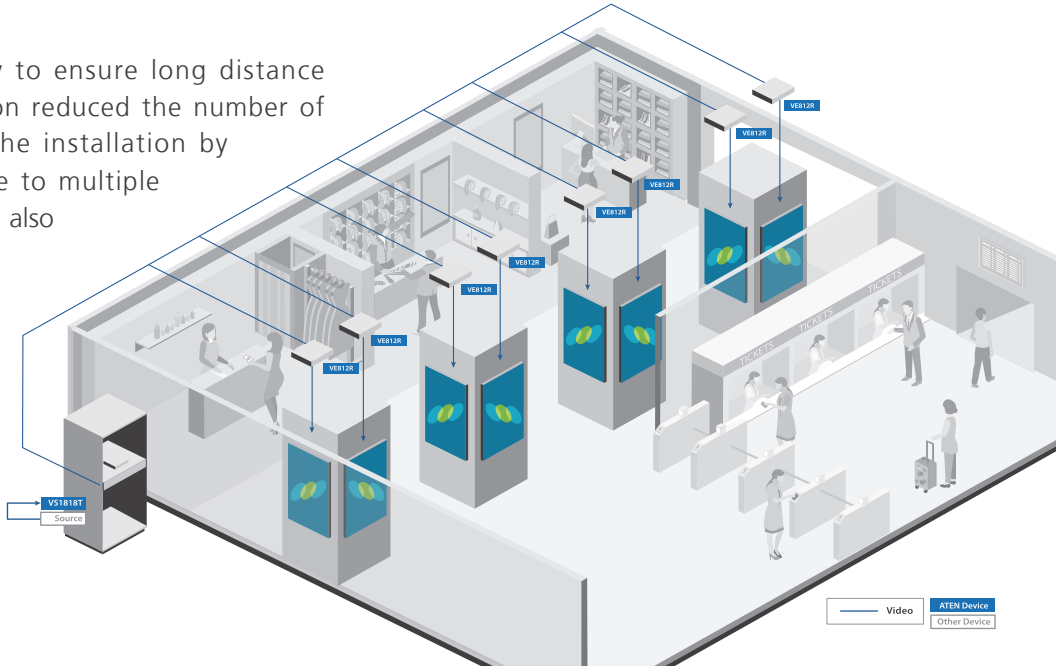
Transportation – Train Station, Japan

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. To achieve this effectively they required 4K content broadcasted to multiple displays mounted vertically on pillars throughout the station, with transmission cloned simultaneously to more than 30 screens that are up to 100 meters apart. The solution needed to be centrally managed.

ATEN Solution

Utilizing HDBaseT technology to ensure long distance transmission, the ATEN solution reduced the number of signage players required in the installation by broadcasting one input source to multiple destinations simultaneously while also reducing heavy cabling.

VS1818T –
4K 8-port HDMI HDBaseT Splitter
VE812R –
4K HDMI HDBaseT Receiver



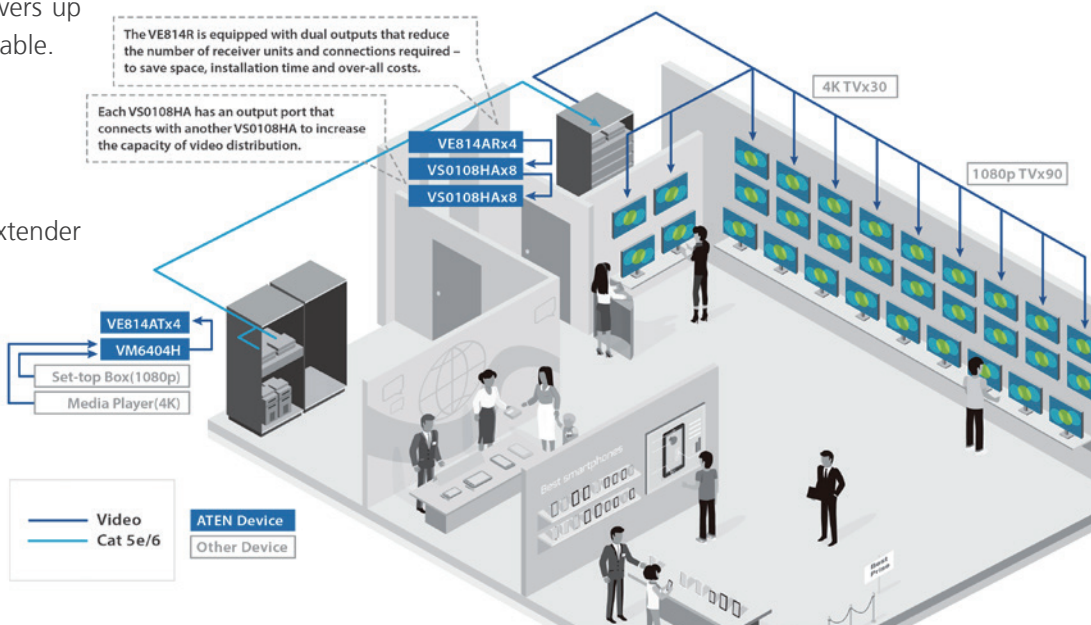
Retail – 3C Chain Store, India

One of the leading consumer electronics retail chain stores in India wanted an in-store 4K and Full HD TV display installation to deliver promotional information and announcements to create an alluring shopping atmosphere for customers. This needed to be compatible with multiple displays of 4K and 1080p resolutions, various sizes, brands and specification and to support a diverse array of source devices for playback, with the capability to play video through specific software and Apps. The distance between displays and source averaged around 50 meters.

ATEN Solution

Making the most of HDBaseT's ability to enable the seamless integration of professional AV equipment, ATEN provided an HDCP-compliant solution that was able to easily up/downscale 4K and 1080p content and provide dual 4K video output to receivers up to 100m away using a single cable.

VM6404H –
4K 4x4 HDMI Matrix Switch
VE814A –
HDMI HDBaseT Dual Display Extender
VS0108HA –
8-port 4K HDMI Splitter



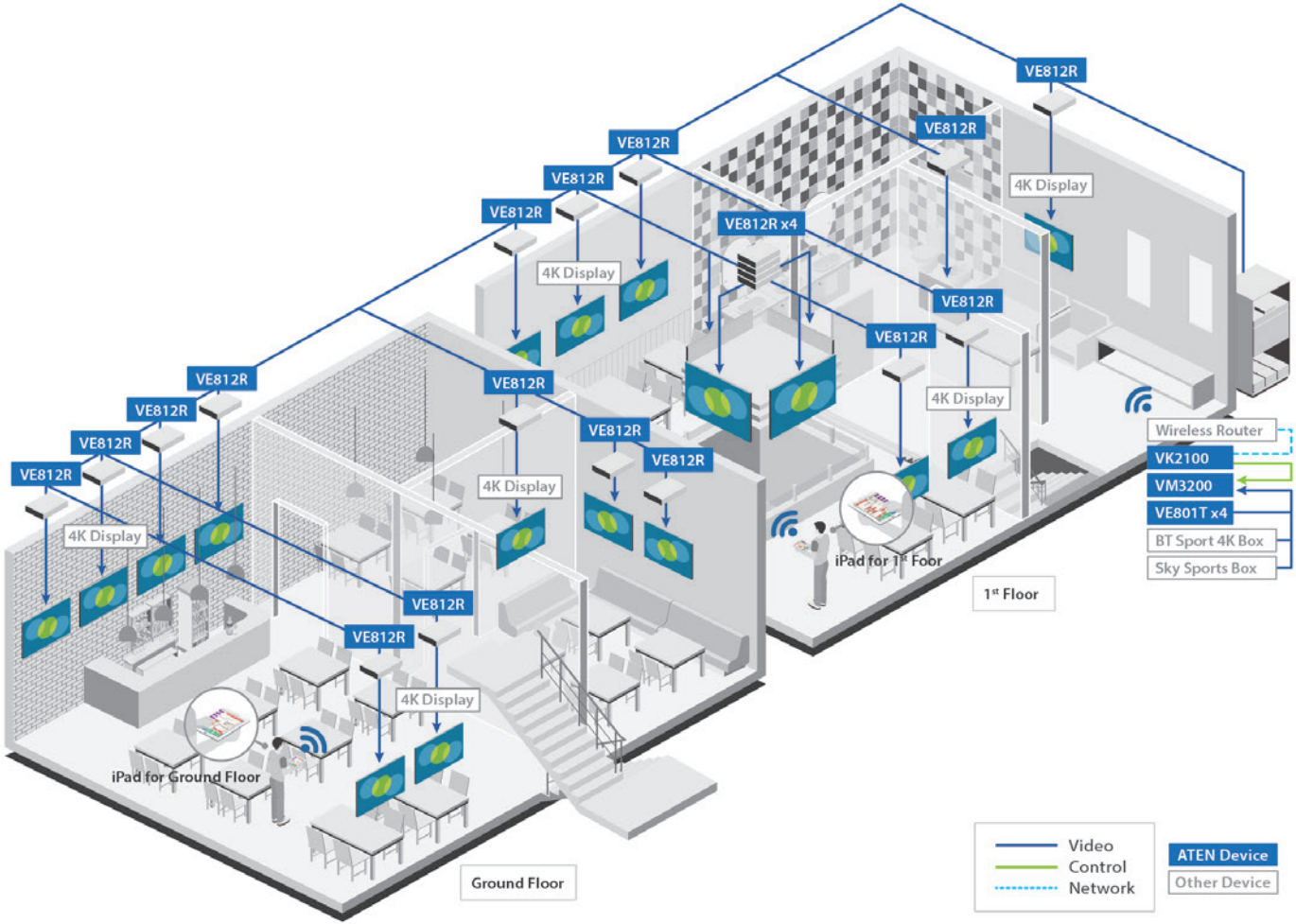
Hospitality – Elevens Bar & Grill, UK

Elevens Bar & Grill, a new sports bar launched by Wales and Real Madrid footballer Gareth Bale, desired a state-of-the-art solution to offers guests an unparalleled sports viewing experience in a stylish and modern setting, with 20 flat screens over two floors which broadcast the biggest live sporting events from around the world in stunning 4K. The solution needed to be unproblematic for staff to use, while maintaining the option to expand the number of video sources or displays at a later stage.

ATEN Solution

Taking full advantage of its modular matrix switch's full interoperability with HDBaseT technology, ATEN provided the perfect solution to guarantee to smooth distribution of 4K content while also allowing the staff access to simple content control capabilities for non-technical users via iPad.

VM3200 – 32 x 32 Modular Matrix Switch
VK2100 – ATEN Control System - Control Box
VE801T – HDMI HDBaseT-Lite Transmitter
VE812R – HDMI HDBaseT Receiver


VE812R
VE812R x4
4K Display
Wireless Router
VK2100
VM3200
VE801T x4
BT Sport 4K Box
Sky Sports Box
iPad for 1st Floor
1st Floor
iPad for Ground Floor
Ground Floor
Video
Control
Network
ATEN Device
Other Device

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