

UCE33100

4-Port USB 3.2 Gen 1 Cat 6A Extender (up to 100 m)



Journey of Achievement

PROJECT TIMELINE

- 1. Design and Planning
- 2. Design & Development
- 3. Beta Testing
- 4. Launch and Release
- 5. Ongoing Support

UCE33100 | 4-Port USB 3.2 Gen 1 Cat 6A Extender

**Extend via Cat 6A,
Enhance USB 3.2 and Serial Transmission**
Versatile Coverage up to 100 m

As the scope of meeting rooms continually evolves, it's critical that we keep pace and maintain fast data transmission that extends to a longer distance should the occasion arise. In such cases, the UCE33100 becomes your perfect partner as it extends your USB connectivity across a distance of up to 100 m over a Cat 6A cable to assure a smooth meeting experience and contribute toward your overall operational efficiency at the office.



Long Distance
Transmission



USB 3.2
Gen 1



Power Over
Cable



RS-232
Pass-through



Frame
Synchronization



Mounting Kit

5 Gbps High-Speed Data Transmission over 100 m

Transmit USB 3.2 data at an ultra-high 5 Gbps speed spanning a distance up to 100 m with a Cat 6A cable*. (Product recommendation: [2L-29330](#))

5 Gbps over 100 m

PC

Local

ATEN

Cat 6A cable*

Remote

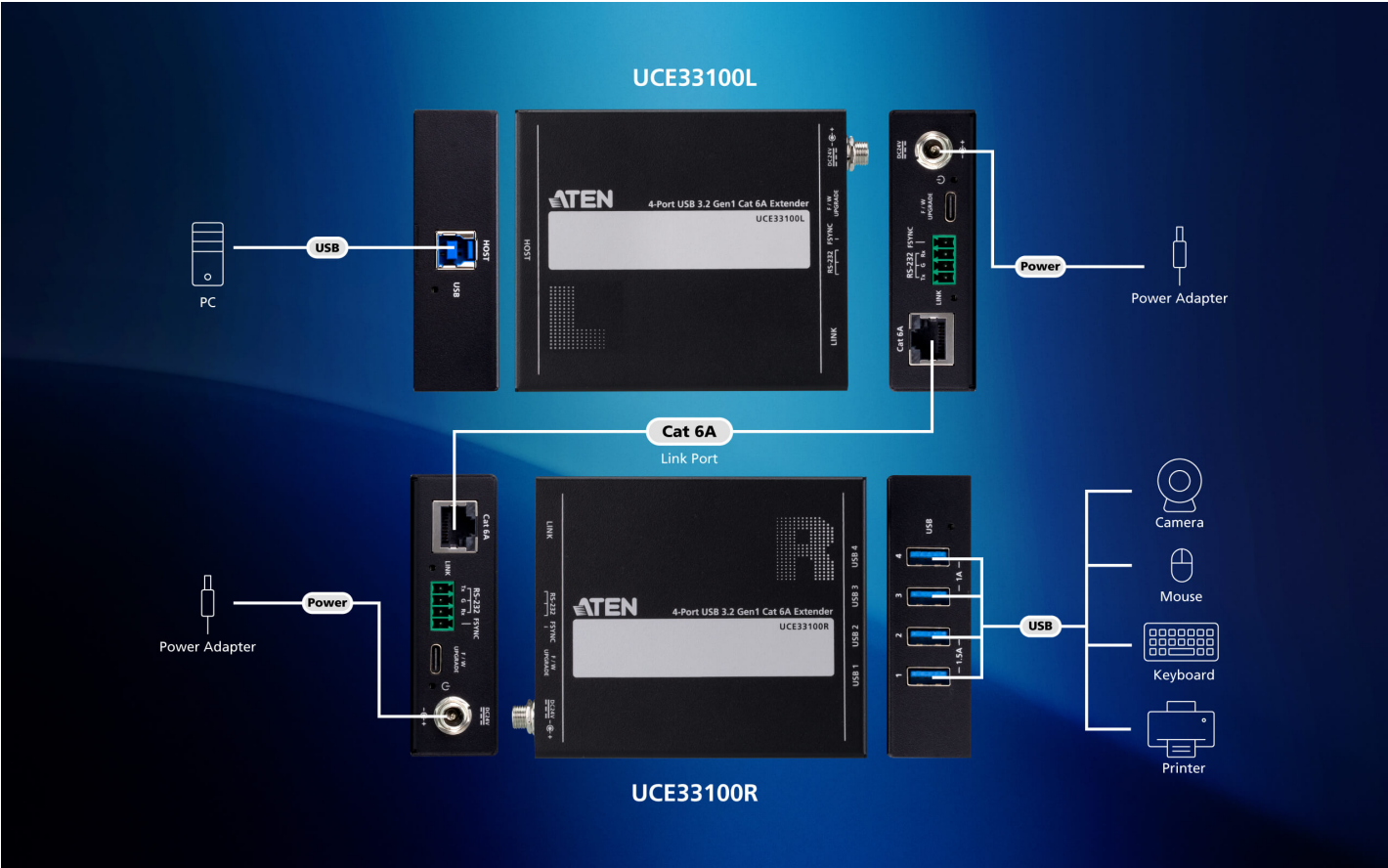
USB-A Devices

Server Room

Meeting Room

4 X USB Type-A Ports for Plug-n-Play Peripheral Connections

Enhance the resourcefulness of the extender by tapping into its 4 USB type-A ports and have a wide range of peripherals at your disposal.



PoC Power Supply for Ultimate Usability Convenience

Either the local or remote unit could be plugged into a power source, powered by just a Cat 6A connection cable.

Easily Mountable for Versatile Deployment

For added ease of installation and expansion, a mounting kit is provided as a resourceful accessory to facilitate easy and convenient installation.



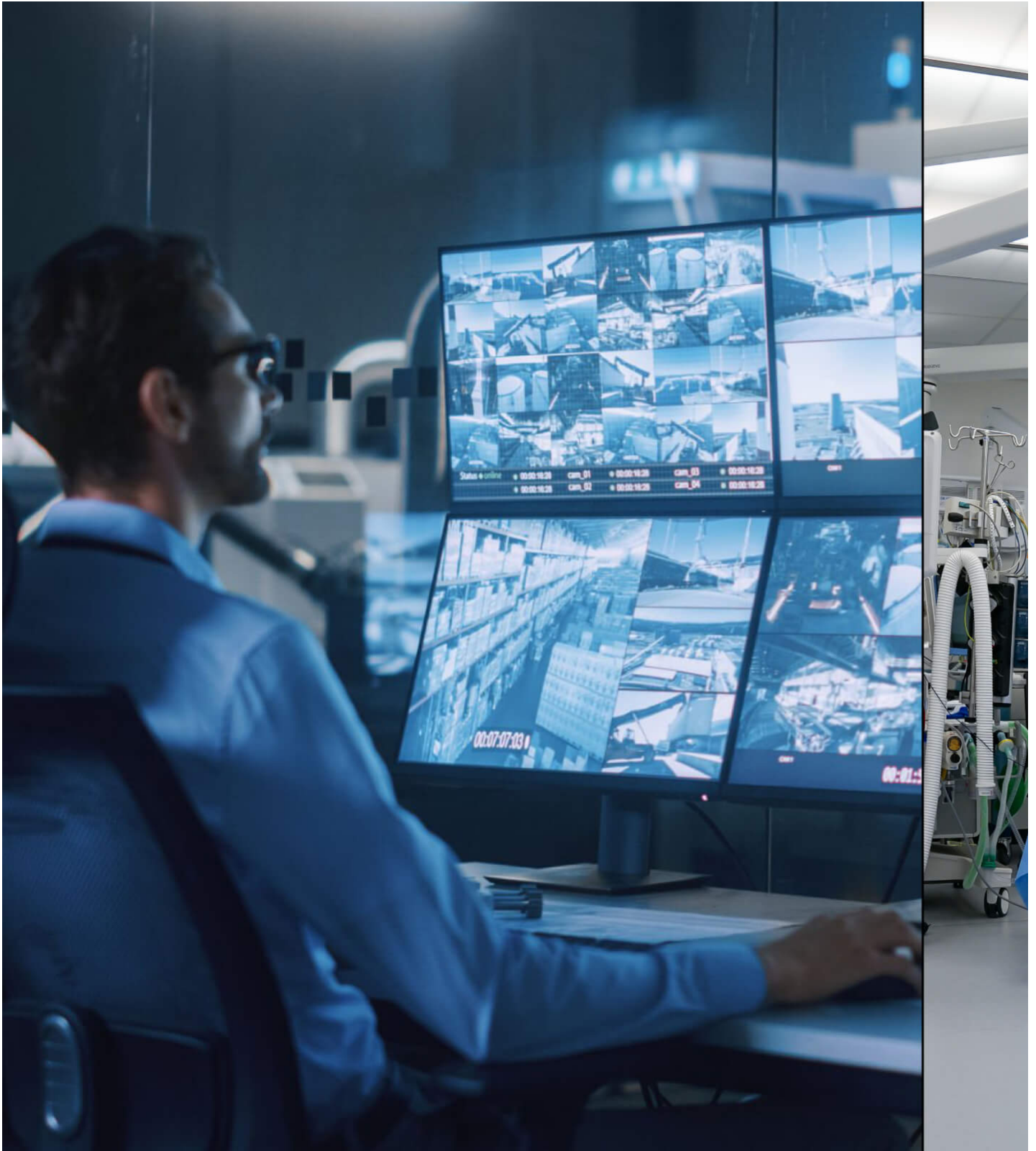
Applications

The additional length afforded by the extender (up to 100 m) means it can be a worthwhile versatile addition to the various spacious applications below:

- 1.
- 2.
- 3.
- 4.



Conference/Education



Industrial Control/Healthcare

[Previous](#) [Next](#)

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



USB 3.2
Gen 1

Transparent
USB Support



Power over
Cable

RS-232
Channel



Features

The UCE33100 is a two-piece extension kit that transmits uncompressed USB 3.2 data at up to 5Gbps over a 100 m Cat 6A cable. With four USB Type-A ports built on the remote unit, the connection to multiple USB peripherals, from flash drives, keyboards, mice, and webcams to interactive whiteboards, is made easy. The support for bi-directional RS-232 pass-through facilitates integration into control systems, and apart from that, the Frame Synchronization (FSYNC) GPIO pass-through ports allow bi-directional commands to be sent when it comes to industrial camera implementations. The bi-directional 24V power over cable function eliminates the need for an additional power adapter when either of the local or remote unit receives power.

The UCE33100 supports plug-and-play operation to work flawlessly with all operating systems, assuring hassle-free installation with no extra driver or software required. Flexibility is further enhanced due to the extender's compact, wall-mountable enclosure, which also helps save space.

- A two-piece extension kit that transmits USB signals over a Cat 6A cable
- Long distance USB 3.2 data transmission at up to 5Gbps across 100m
- Backward compatible with USB 2.0 / 1.1 specifications
- 4x USB Type-A ports built on the remote unit for connection to multiple USB peripherals (flash drives, keyboards, mice, webcams, interactive whiteboards, and any other USB-based devices)
- Supports bi-directional RS-232 pass-through for integration into control systems
- Supports bi-directional Frame Synchronization (FSYNC) GPIO pass-through for industrial camera applications
- Bi-directional 24V power over cable eliminates the need for an additional power adapter when either of the local or remote unit receives power
- Plug-and-play with no driver / software required to work with all operating systems
- Compact, wall-mountable enclosure elevates installation flexibility and helps save space



Specification

| | |
|------------------------|--|
| Local Unit | |
| Upstream Port | 1 x USB Type B Female |
| Downstream Port | 1 x RJ45 Female, HDBT-USB3 1 x USB Type C Female (Firmware Upgrade) 1 x 3-pin Terminal Plug (RS-232) 1 x 1-pin Terminal Plug (FSYNC) Note: The USB-C port is for firmware upgrade only. Please do not connect any other devices during regular use. |
| Power | 1 x DC Jack |
| Remote Unit | |
| Upstream Port | 1 x RJ45 Female, HDBT-USB3 |
| Downstream Port | 4 x USB Type A Female 1 x USB Type C Female (Firmware Upgrade) 1 x 3-pin Terminal Plug (RS-232) 1 x 1-pin Terminal Plug (FSYNC) Note: The USB-C port is for firmware upgrade only. Please do not connect any other devices during regular use. |
| Power | 1 x DC Jack |
| USB Specification | USB3.2 Gen1 |
| Cable Type | Cat 6A Ethernet Cable Note: We recommend using cables of HDBaseT 3.0 Certified Cat 6A U/FTP cable for a better transmission. |
| Signal Range | 100m |
| LEDs | |
| Status | 3 x LED |
| Power Consumption | DC24V:1.92WBTU/h DC24V:2.64WBTU/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°C to 40°C |
| Storage Temperature | -20°C to 60°C |
| Humidity | 20–90% RH, Non-condensing |
| Physical Properties | |
| Weight | 0.26 kg (0.57 lb) |
| Housing | Metal Enclosure |
| Dimensions (L x W x H) | 10.75 x 8.50 x 2.55 cm (4.23 x 3.35 x 1 in.) |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. |

Diagram

