



ADTECHNO Introduces AEX-01UTR USB & 4K120Hz Extension System for Long-Distance AV, USB, and Control Signal Transmission

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Tokyo, Japan – ADTECHNO Inc. is pleased to announce the launch of the AEX-01UTR USB & 4K120Hz Extension System, a next-generation AV extension solution that enables USB 3.2 Gen1 devices, 4K120Hz video, and RS-232 control signals to be transmitted up to 100 meters over a conventional CAT5e cable.

The AEX-01UTR consists of a transmitter unit and a receiver unit operating as a dedicated Point-to-Point (P2P) extension system. Designed for modern AV and collaboration environments, it combines long-distance USB extension, ultra-high-definition video transmission, and subframe latency performance in a compact and easy-to-deploy platform. It is ideally suited for conference rooms, educational facilities, streaming studios, live production environments, Esports venues, and other professional AV applications where reliable video and USB connectivity are required over extended distances.

At the core of the AEX-01UTR is an advanced video transmission engine utilizing high-efficiency video compression technology, enabling high-quality HDMI 2.1 4K120Hz video transmission over conventional CAT5e cabling without the need for specialized infrastructure.

Despite its high compression efficiency, the dedicated SoC architecture delivers subframe latency performance, making the AEX-01UTR particularly well suited for competitive gaming, live events, and other latency-sensitive applications where real-time responsiveness is essential.

The system employs an IEEE-based transmission architecture optimized for stable long-distance signal transport, helping ensure reliable video and data transmission even in electrically noisy environments and over extended cable runs.

On the transmitter side, the AEX-01UTR supports both HDMI and USB-C DisplayPort Alt Mode (DP Alt Mode) video inputs and automatically switches between them by detecting a valid active video signal, providing seamless and reliable source selection without manual intervention.

In addition to video transmission, the AEX-01UTR simultaneously extends USB 3.2 Gen1 device connectivity and RS-232 serial communication over a single CAT5e cable. The system supports USB 3.2 Gen1 full-duplex communication, delivering smooth and responsive USB connectivity for webcams, UVC capture devices, touch panels, and other interactive USB peripherals. This makes it an ideal solution for hybrid meeting rooms, educational environments, collaboration spaces, and professional production workflows.

The transmitter unit features an HDMI loop-out port for local monitoring and flexible system integration. Dedicated mounting brackets are included for convenient installation behind displays or inside equipment racks.

To simplify deployment, the AEX-01UTR incorporates bidirectional PoC (Power over Cable) technology. By connecting the included power adapter to either the transmitter or receiver unit, power is automatically delivered to the paired unit through the CAT5e cable, reducing installation complexity and minimizing power outlet requirements.

Combining long-distance USB extension, HDMI 2.1 4K120Hz video transmission, USB-C DP Alt Mode input support, subframe latency performance, and simple installation, the AEX-01UTR provides an ideal solution for organizations seeking to extend high-performance AV and USB connectivity without the complexity of traditional infrastructures.

Key Features

- Up to 100 meters of long-distance USB extension over a single CAT5e cable
- Simultaneous transmission of HDMI video, USB device connectivity, and RS-232 control signals
- Supports both HDMI 2.1 and USB-C DisplayPort Alt Mode (DP Alt Mode) video inputs
- Automatic input switching based on active video signal detection
- High-quality 4K120Hz HDMI 2.1 video transmission up to 100 meters
- Subframe latency performance for highly responsive AV applications
- USB 3.0 full-duplex communication support for smooth and responsive USB connectivity
- Dedicated Point-to-Point (P2P) architecture requiring no network configuration
- Optimized for hybrid meeting rooms, educational facilities, Esports venues, live production, and AV collaboration spaces
- Reliable long-distance signal transmission over conventional CAT5e cabling
- HDMI loop-out on the transmitter for local monitoring and flexible system integration
- Bidirectional PoC (Power over Cable) allows both units to be powered from a single power adapter

"The AEX-01UTR was designed to simplify AV system deployment by enabling video, USB, control, and power transmission over a single CAT5e cable," said Shinichi Yasui, Product Manager at ADTECHNO. "Supporting HDMI and USB-C DisplayPort Alt Mode inputs, USB 3.2 Gen1 full-duplex communication, and 4K120Hz video transmission up to 100 meters, the AEX-01UTR delivers the flexibility, responsiveness, and ease of installation demanded by today's professional AV environments. It is an ideal solution for applications ranging from hybrid meeting rooms and classrooms to Esports and live production."

Pricing and Availability

USB & 4K120Hz Extension System – AEX-01UTR is available for pre-order today through ADTECHNO distributors and resellers.

The AEX-01UTR will be showcased at InfoComm 2026 at Booth C6808.

Resources

Product images are available at: www.ad-techno.com/DL/IMG-AEX-01UTR.zip

About ADTECHNO Inc.

ADTECHNO Inc., established in 1997, is one of Japan's leading manufacturers of professional audio-visual equipment. We specialize in the design, development, and production of high-quality, cost-effective image signal processing solutions—including LCD displays, media players, extenders, splitters, and converters—serving markets such as broadcasting, digital signage, education, medical, security, and factory automation. With our own manufacturing facility in Taiwan and a dedicated R&D division, ADTECHNO combines in-house innovation with engineering excellence to deliver solutions that meet demanding professional standards.

In recent years, our Dante AV Ultra product series has earned multiple Best of Show awards at prestigious international exhibitions such as ISE, InfoComm, and IBC, highlighting our commitment to cutting-edge AV-over-IP technology. These award-winning products offer ultra-low latency, frame-accurate AV synchronization, and seamless integration within the Dante ecosystem—reinforcing our role as a technology leader in the Pro AV industry.

Our focus on connectivity and digital display technologies enables us to deliver distinctive, niche products that create significant value and new opportunities for our customers. Guided by our core values of quality, efficiency, and reliability, we are committed to maintaining the highest levels of customer satisfaction and building enduring business partnerships.

For more information, please visit: www.ad-techno.com/en

Media Contact

ADTECHNO Inc. / press@ad-techno.com