Datasheet

# AVBRINX-SE40K-T/R | HDBaseT HDMI Extender Over Ethernet Cable with HDMI, HDBaseT, Audio, IR, RS232, KVM



## Key features

- 4K UHD transmission (60Hz) up to 100m; 1080p transmission up to 150m over CAT6/7.
- HDBaseT 2.0 powered for stable, multi-signal extension with zero latency.
- Integrated USB 2.0 KVM control for mouse, keyboard, and peripheral operation.
- Bidirectional RS-232 and IR passthrough for flexible device management.
- Built-in 10/100 Ethernet, eliminating extra cabling requirements.
- Advanced audio format support, including Dolby TrueHD and DTS-HD Master Audio.
- Professional-grade design with compact size, low heat, and 24×7 stable operation.

## Product Overview

The Macsys AVBRINX-SE40K-T/R is a next-generation HDBaseT HDMI extender built for professional AV environments requiring uncompromised audiovisual quality, reliable long-distance connectivity, and multi-service signal integration. Designed to extend 4K UHD video at 60Hz up to 100 meters and 1080p Full HD up to 150 meters over a single CAT6/7 cable, it offers a simplified, cost-effective, and high-performance solution for system integrators and enterprise clients.

This extender supports HDBaseT 2.0 technology, enabling simultaneous transmission of HDMI signals, bidirectional RS-232 control, bidirectional infrared, USB 2.0 (for KVM and device extension), and 10/100 Ethernet without compression or signal loss. Its zero-latency transmission ensures real-time performance, making it equally suitable for video conferencing, live broadcasting, auditorium presentations, and command-center monitoring.

The AVBRINX-SE40K-T/R also delivers wide compatibility with HDMI 1.4, HDMI 2.0, DVI 1.0, and HDCP 2.2 standards, ensuring seamless connectivity with modern displays, projectors, and source devices. Its robust audio support covers everything from LPCM stereo to advanced multichannel formats such as Dolby Digital, Dolby TrueHD, DTS, and DTS-HD Master Audio, providing cinema-grade sound alongside ultra-clear visuals.

With a compact footprint, low-power chipset, and 24/7 reliable operation, the extender is optimized for demanding installations where stability and efficiency are essential. Additionally, both transmitter and receiver units include flexible port options for HDMI, USB, IR, RS-232, and LAN, making them easy to integrate into existing infrastructures.

From corporate AV systems and education setups to security monitoring stations and broadcast studios, the Macsys AVBRINX-SE40K-T/R stands out as a future-ready, multifunctional HDMI extender offering performance, versatility, and reliability all in one device.

**AVBRINX-SE40K-T/R | HDBaseT HDMI Extender Over Ethernet Cable with HDMI, HDBaseT, Audio, IR, RS232, KVM**

## Technical Specification

| Feature | Details |
|---|---|
| Model | AVBRINX-SE40K-T |
| Protocol | HDBaseT 2.0 |
| Transmission Medium | CAT6/7 |
| Ports | 1 × HDMI-OUT, 1 × HDBaseT, 2 × LAN |
| Supported Resolution | Up to 4K@60Hz (downward compatible) |
| Transmission Rate | 16Gbps |
| Transmission Distance | - 4K@60Hz: up to 100 meters<br>- 4K 3D: up to 30 meters<br>- 1080p Full HD: up to 150 meters |
| Compliance Standards | HDMI 2.0, HDMI 1.4, DVI 1.0, HDCP 2.2 |
| Output Format | HDMI Video/Audio |
| Latency | Zero-delay transmission |
| Audio Support | LPCM 2/5.1/7.1CH, Dolby Digital, Dolby TrueHD, DTS, DTS-HD Master Audio |
| Dimensions (W × H × D) | 142 × 44 × 154 mm (W × H × D) |
| Weight | 230g |
| Operating Temperature | 0°C ~ 50°C |
| Power Supply | DC +12V/2A |
| Design Benefit | Compact low-power chipset for 24/7 stable use |
| Model | AVBRINX-SE40K-R |
| Protocol | HDBaseT 2.0 |
| Transmission Medium | CAT6/7 |
| Ports | 1 × HDBaseT-IN, 1 × HDMI-OUT, 2 × USB, 2 × RS-232, 1 × IR-IN, 1 × IR-OUT, 2 × LAN |
| Supported Resolution | Up to 4K@60Hz (downward compatible) |
| Transmission Rate | 16Gbps |
| Transmission Distance | - 4K@60Hz: up to 100 meters<br>- 4K 3D: up to 30 meters<br>- 1080p Full HD: up to 150 meters |

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| Feature | Details |
|---|---|
| Compliance Standards | HDMI 2.0, HDMI 1.4, DVI 1.0, HDCP 2.2 |
| Functional Support | - USB 2.0 KVM<br>- Bidirectional RS-232<br>- Bidirectional IR<br>- 10/100 Ethernet |
| Latency | Zero-delay transmission |
| Audio Support | LPCM 2/5.1/7.1CH, Dolby Digital, Dolby TrueHD, DTS, DTS-HD Master Audio |
| Dimensions (W × H × D) | 142 × 44 × 154 mm |
| Weight | 230g |
| Operating Temperature | 0°C ~ 50°C |
| Power Supply | DC +12V/2A |
| Design Benefit | Optimized for stable integration in corporate, broadcast, and monitoring systems |
| Certifications | CE, RoHS compliance |



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