

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.

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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 - 4K 3D: up to 30 meters - 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 - 4K 3D: up to 30 meters - 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 - Bidirectional RS-232 - Bidirectional IR - 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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