Datasheet

AVBRINX-SE80-T/R | HDMI Extender Over Ethernet Cable with HDMI, Audio, IR, Rs232



Key features

- High-Definition Video Support: Enables 4K × 2K and Full HD 1080p video extension without signal loss.
- Integrated Signal Transmission: Extends HDMI, audio, IR, and RS-232 simultaneously for complete AV control.
- HDBaseT protocol enabled for compatibility with HDMI 1.4 and HDCP 1.2 standards
- Advanced color space support: RGB444, YUV444, YUV422 x.v for superior image richness
- Single-Cable Convenience: Uses one Ethernet/CAT cable for both signal and power, reducing clutter.
- Power over Cable (POC): Eliminates the need for separate power adapters, simplifying installation.
- Long-Distance Reliability: Maintains consistent signal quality over distances up to 70 meters.
- Integrated two-way RS-232 transmission for remote control and automation

Product Overview

The Macsys AVBRINX-SE80-T/R is a high-performance HDMI extender designed to seamlessly transmit HDMI audio, video, infrared (IR), and bidirectional RS-232 control signals up to 70 meters over a single Ethernet cable. Utilizing advanced HDBaseT technology, it supports HDMI 1.4 and HDCP 1.2 protocols to deliver lossless, high-definition digital video signals up to 4K@30Hz and 1080P@60Hz. This device is ideal for professional audio-visual setups in boardrooms, conference rooms, and digital signage, offering superior color fidelity with support for RGB444, YUV444, and YUV422 x.v color spaces.

Uniquely, the AVBRINX-SE80-T/R integrates multiple AV and control signals into one streamlined transmission solution, significantly simplifying cable management and installation requirements. Its compact design and lightweight form factor make deployment effortless, while its Power over Cable (POC) feature eliminates the need for additional power adapters, reducing clutter and energy consumption. With this combination of reliable, long-distance signal extension and integrated power, the Macsys AVBRINX-SE80-T/R stands out as an efficient, user-friendly solution for diverse AV integration needs.

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Technical Specification

Feature	Details
HDMI Extension	Up to 70 meters over single Ethernet cable
Audio Extension	Supported over Ethernet cable
IR Extension	Supported over Ethernet cable
RS-232 Transmission	Bidirectional, supported over Ethernet cable
HDMI Version	HDMI 1.4
HDCP Version	HDCP 1.2
Protocol	HDBaseT enabled
Supported Color Spaces	RGB444, YUV444, YUV422 x.v
Maximum Resolution	1080P@60Hz 3DSupport, 4K@30Hz
Power over Cable (POC)	Single-ended POC supported
Dimensions	102 × 25 × 79 mm
Power Input	DC 12V
Weight	0.3 kg
Certifications	CE, RoHS compliance

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