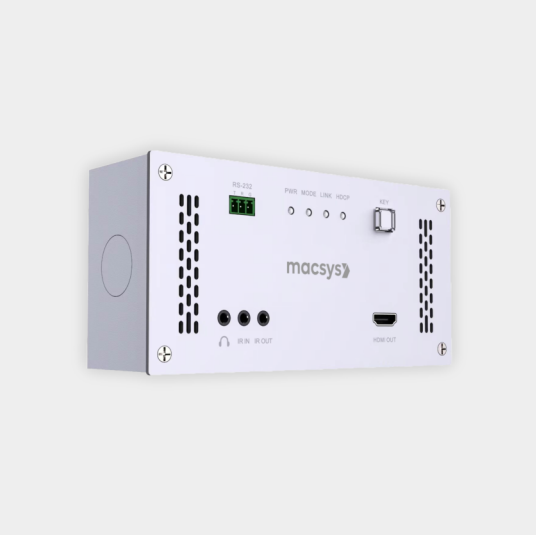
Datasheet

AVBRINX-SE30-WT/R | HDBaseT HDMI Extender over Ethernet cable with HDMI, TYPE-C, Audio, IR, RS232 Wall and Flush Mount





Key features

- Supports ultra-long distance 4K@60Hz up to 100m and 1080P@60Hz up to 150m over CAT6 cable.
- Dual TYPE-C ports: one for signal input and one for power output.
- Transparent RS232 serial data transmission for device control.
- IR passthrough (IN/OUT) for remote control compatibility.
- Power over Cable (POC) technology reduces power adapter clutter.
- Button controls for output resolution adjustment and system reset.
- Compliant with HDMI 2.0, DVI 1.0, and HDCP 2.2 standards.
- Wide Resolution Support from 640×480@60Hz to 3840×2160@60Hz.
- Audio Embedding/De-embedding Support for flexible sound management.
- Auto Cable Length Adjustment ensures stable performance across varying cable lengths.
- Compact dimensions (172x86x45 mm) ideal for embedded wall/flush mount installation.

Product Overview

The Macsys AVBRINX-SE30-WT/R is a professional-grade HDBaseT HDMI Extender set, engineered to deliver flawless high-definition video and audio transmission over long distances using a single Ethernet CAT6 cable. Designed specifically for embedded wall and flush mount applications, this extender system is ideal for modern AV infrastructures in corporate boardrooms, control rooms, education facilities, and digital signage installations.

With support for ultra-high resolutions up to 4K@60Hz and full HD 1080P@60Hz, it enables crystal-clear visual experiences at distances up to 100 meters for 4K and an impressive 150 meters for 1080P signals, eliminating the limitations of traditional HDMI cables. The device uniquely incorporates dual TYPE-C interfaces, with one channel dedicated to TYPE-C signal input and the other for power output, enhancing versatility to interface with evolving digital devices.

Featuring transparent RS232 transmission for advanced serial control capabilities, IR passthrough functionality for remote device management, and integrated audio input/output ports, the AVBRINX-SE30-WT/R ensures seamless signal integration and versatile control in complex AV ecosystems. Its POC (Power over Cable) technology eliminates the need for multiple power supplies, simplifying installation and reducing cable clutter.

Built to support industry standards such as HDMI 2.0, DVI 1.0, and HDCP 2.2, this extender guarantees broad compatibility and secure digital content transmission. Its compact dimensions (172 x 86 x 45 mm) make it perfectly suited for embedded installation within walls or furniture, providing a clean and professional AV setup. The built-in button controls allow easy adjustment of output resolution and system reset, facilitating on-site configuration.

Overall, the Macsys AVBRINX-SE30-WT/R offers a future-ready, scalable solution combining cutting-edge transmission technology, flexible connectivity options, and user-friendly features, perfectly tailored for demanding AV deployment environments requiring high performance and reliable long-distance HDMI extension.

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Technical Specification

Feature	Details
Name	HDBaseT HDMI Extender over Ethernet Cable – Wall/Flush Mount Design
Resolution	Supports up to 4K@60Hz (backward compatible)
Ports (Transmitting)	2 x HDMI IN (HDMI 2.0) 2 x TYPE-C (1 signal input, 1 power output) 1 x IR IN (3.5 mm) 1 x IR OUT (3.5 mm) 1 x RS232 (Terminal Block) 1 x Audio IN (3.5 mm) 1x HDBaseT OUT (Sends combined HDMI/Audio/IR/RS232 signals to receiver over single cable)
Ports (Receiving)	1 x HDMI OUT (HDMI 2.0) 1 x IR IN (3.5 mm) 1 x IR OUT (3.5 mm) 1 x RS232 (Terminal Block) 1 x Audio OUT (3.5 mm) 1x HDBaseT IN RJ45 (Receives combined HDMI/Audio/IR/RS232 signals from transmitter over cable)
Transmission Distance	4K@60Hz up to 100m, 1080P@60Hz up to 150m
Transmission Medium	CAT6 cable
Input Voltage	DC 12–24V
Standard Compliance	HDMI 2.0, DVI 1.0, HDCP 2.2
Size (mm)	172 × 86 × 45mm (L × W × D)
Power Consumption	9.6 W
Certifications	CE, RoHS compliance

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