Datasheet

AVBRINX-SE20-WT/R | HDBaseT HDMI Extender Over Ethernet Cable with HDMI, VGA, Audio, RS232 Wall Mount





Key features

- Wall-mounted HDBaseT HDMI extender with integrated transmitter and receiver
- Supports HDMI and VGA input, HDMI output, and analog audio input for full connectivity
- De-embedding audio function with RS232 interface for centralized AV control
- 1080p 60Hz video transmission over 70 meters via CAT6 ethernet cable
- Aluminium alloy panel with standard 86 box design ensures fast installation and excellent heat dissipation
- Power over Cable (POC) technology eliminates separate adapter requirements
- Control external devices directly through RS232 passthrough functionality

Product Overview

The Macsys AVBRINX-SE20-WT/R HDBaseT HDMI Extender Wall Plate is a high-performance solution designed for seamless AV signal transmission in professional environments such as conference rooms, classrooms, and corporate boardrooms. This wall-mountable extender combines sleek design with powerful functionality, delivering reliable long-distance transmission of audio and video signals over a single CAT6 cable.

Supporting both HDMI and VGA inputs with integrated audio de-embedding, the extender provides maximum flexibility for switching between sources. It transmits up to 1080p@60Hz Full HD resolutions over a distance of up to 70 meters with zero latency, making it ideal for presentations and interactive AV setups.

The POC (Power over Cable) feature eliminates the need for additional power cords at the receiver, ensuring easy integration and reduced installation complexity. Built with an aluminium alloy wall plate panel in standard 86 box size, it offers excellent heat dissipation, durability, and an elegant finish that complements modern interiors.

With the added advantage of an RS232 control interface, users can easily manage connected devices such as projectors, motorized screens, or curtains directly from the wall panel. This makes it not just a transmitter but a complete AV signal and device control hub, tailored for professional installations that demand both performance and aesthetics.

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Technical Specification

Feature	Details
Model	AVBRINX-SE20-WT
Item Name	HDBaseT HDMI Extender Wall Mount Transmitter
Video Inputs	1 × HDMI, 1 × VGA,
Audio Input	1 × 3.5mm Stereo (with VGA sync)
Input Connectors	HDMI: Type A 19-pin female VGA: 15-pin adapter Audio: 3.5mm stereo
Output	1 × HDBaseT (RJ45 interface)
Transmission	HDBaseT
Audio Input	1 channel with VGA video sync audio signal
Frequency Response (Audio)	20Hz ~ 20KHz
Input Resistance	>10Ω
SNR (Audio)	>85dB @ 20Hz ~ 20KHz
Control Port	Front panel 1x RS232 3 pin (green); Real panel 1x RS232 3 pin (Shared ground with 12V out)
Video Resolution Supported	VGA: Supports 800x600, 1024x768, 1280x800, 1280x1024, 1440x900, 1600x1200, 1920x1080, 1920x1200; HDMI: 1080P 3D, 1080P (HD), 1080i/720P/576P/576i/480P/480i
Transmission Distance	Up to 70m (1080P@60Hz over CAT6, POC enabled)
Bandwidth	10.2 Gbps
Standards	HDMI 1.4, HDCP 1.2
Power Supply	Input: DC 12V 2A (2 pin) Output: DC 12V 2A (2 pin, shared with the rear panel RS232)
Power Consumption	9.6W (max)
Dimensions (mm)	86 × 86 × 45 (W × H × D)
Operating Temperature	-10°C to +40°C
Relative Humidity	<90% RH (recommended; no value in Macsys spec)
Enclosure	Standard 86x86mm box, aluminium alloy panel
Weight	0.29 kg

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Feature	Details
Model	AVBRINX-SE20-WR
Item Name	HDBaseT HDMI Extender Wall Mount Receiver
Resolution	640×480 @ 60Hz to 1920×1200 @ 60Hz (VESA standard) 480i to 1080P (HDTV standard)
Input	1 × HDBaseT (RJ45 interface)
Output	1 × HDMI OUT, 1 × RS232 3 pin
Output Connector	HDMI: Type A 19-pin female
Medium	CAT6 cable
Input Voltage	DC 12V
Bandwidth	10.2 Gbps
Protocol	HDMI 1.4, HDCP 1.2
Work Temperature	0°C to +50°C
Storage Temperature	-25°C to +55°C
Dimensions (mm)	86 × 86 × 45 (W × H × D)
Power Consumption	9.6W
Certifications	CE, RoHS compliance

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