AVBRINX-NSE30-T/R | HDBaseT Network Extender with HDMI, VGA, IR, Audio Signal & POC





Key features

- Transmits HDMI, VGA, IR, audio, and two-way RS232 signals over a single twisted pair cable
- Supports ultra HD video resolutions up to 4K@30Hz
- Compatible with HDMI 1.4 and HDCP 2.2 protocols
- Power over Cable (PoC) enables power delivery through one Ethernet cable
- Signal transmission distance up to 70 meters with on-site adjustment
- Supports multi-color space, video format conversion, and frequency multiplication
- EDID dialing for automatic/manual display compatibility adjustment

Product Overview

The Macsys AVBRINX-NSE30-T/R HDbaseT Network Extender is a high-performance solution designed to extend HDMI, VGA, IR, and audio signals up to 70 meters over a single network cable with unparalleled clarity and stability. Supporting resolutions up to 4K@30Hz, it enables seamless transmission of uncompressed high-definition video alongside two-way IR and RS232 control signals, making it ideal for complex AV system integrations in corporate, educational, and commercial venues.

This extender leverages HDBaseT technology combined with Power over Cable (PoC) capability to minimize cable clutter and simplify installations by powering both transmitter and receiver units via a single Ethernet cable. The AVBRINX-NSE30-T/R also supports HDMI 1.4 and HDCP 2.2 protocols ensuring comprehensive compatibility with modern AV equipment while maintaining secure and high-quality output.

Advanced features include support for multiple color spaces and real-time video format conversion with frequency multiplication to guarantee consistent image quality across various displays. The inclusion of EDID dialing allows automatic and manual adjustments for optimal display recognition, ensuring hassle-free interoperability with a wide range of monitors and projectors.

Compact and lightweight, weighing approximately 0.5 kg per unit, it consumes low power (≤10W) and offers on-site effect adjustment for fine-tuning signal transmission quality. This makes the AVBRINX-NSE30-T/R a versatile and reliable choice for professional AV integrators seeking a flexible and efficient networked AV extender.

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Technical Specification

Feature	Details
Model	AVBRINX-NSE30-T
Input	HDMI, IR, RS-232 signal input
Output	70M twisted pair signal output
Color Space	RGB444, YUV support
Resolution	800x600, 1024x768, 1280x720, 1280x800, 1280x1024, 1360x768, 1366x768, 1440x900, 1440x1050, 1600x1200, 1680x1050, 1920x1080, 1920x1200; supports 4K@30Hz
Transmission Distance	1080p@60Hz: 70M; 4K@30Hz: 30M
Protocol	HDMI 1.4, HDCP 2.2
Voltage	DC 12V-24V
Power Consumption	≤10W
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-25°C ~ 55°C
Weight	0.5 Kg
Model	AVBRINX-NSE30-R
Input	70M twisted pair signal input
Output	HDMI, IR, RS-232 signal output
Color Space	RGB444, YUV support
Resolution	800x600, 1024x768, 1280x720, 1280x800, 1280x1024, 1360x768, 1366x768, 1440x900, 1440x1050, 1600x1200, 1680x1050, 1920x1080, 1920x1200; supports 4K@30Hz
Transmission Distance	1080p@60Hz: 70M; 4K@30Hz: 30M
Protocol	HDMI 1.4, HDCP 2.2
Voltage	DC 12V-24V
Power Consumption	≤10W
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-25°C ~ 55°C
Weight	0.5 Kg
Certifications	CE, RoHS compliance

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