Datasheet

AVNEX-80K-T/R
| 4k 60Hz Integrated Transmitter/Receiver with Network Backup, KVM & OSD Menu



Key features

- "4K@60Hz Ultra-HD video with HDMI, DP and audio de-embedding.
- Dual backup transmission via fiber and network
- Integrated KVM seat management to control multiple hosts from one keyboard/mouse.
- On-screen menu for fast signal switching and permission setup.
- Multi-level user & permission control for secure operation.
- Unified system management: display control, USB data, and seat scheduling in one device.
- OSD multi-screen push/capture to enhance collaboration and dispatch efficiency."

Product Overview

"The Macsys AVNEX-80K-T/R is an advanced 4K 60Hz integrated transmitter/receiver designed for high-performance AV and KVM applications. By combining ultra-high-definition video distribution, keyboard-mouse control, and centralized seat management into a single platform, it reduces system complexity and ensures secure, efficient operation.

Engineered with an optical network dual-standby design, the AVNEX-80K-T/R supports simultaneous fiber and network transmission, providing uninterrupted reliability even in critical environments. Operators can seamlessly switch signals, manage permissions, and collaborate across multiple screens using the built-in OSD multi-screen interface. With HDMI, DisplayPort, audio de-embedding, and flexible control via RS-232, IR or web, it offers a future-proof solution for control rooms, command centers, and enterprise-class AV networks."

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Technical Specification

Feature	Details
Input Interfaces	HDMI-IN ×1, DP-IN ×1, Audio-IN ×1
Output Interfaces	HDMI-OUT ×1, Audio-OUT ×1
Control Methods	Panel button control / RS-232 serial port control / IR / Web control / PC software
Maximum Resolution	Up to 4K@60Hz
Transmission Distance	Fiber input ≤ 20 km, LAN cable input ≤ 120 m
Input Voltage	DC 12V
Signal Switching	OSD menu switching via keyboard hotkeys
User Management	Multi-level user authority, fine-grained permission assignment
KVM Functionality	Multi-host control through single keyboard & mouse; agent-based separation
Multi-Screen Management	Signal push and capture between seats and large screens
Centralized Management	Unified system for display control, USB data transfer, and seat scheduling
Backup/Redundancy	Dual backup transmission—simultaneous signal support via fiber and network
Audio Support	Audio de-embedding supported
Certifications	CE, RoHS compliance

Dimension

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