SWNetPro

AV-Over-IP Management System



Overview

SWNetPro is an **AV-over-IP management system** designed to integrate **Video Wall Control**, **KVM Matrix**, and **3rd Party System Control** within a single platform.

Built around the **G265XRTF transceiver**, SWNetPro allows users to manage and route AV sources, operate video walls, access and control remote PCs through KVM, and integrate third-party devices from one management environment.

Videowalls can be controlled through **Windows**, **Android**, or directly from the **KVM interface**, with changes synchronized across all control interfaces. This enables operators to switch between control methods while maintaining a consistent system status and layout.

The integrated KVM and video wall architecture allows the system to operate without requiring a separate video wall controller, creating a self-contained AV-over-IP environment using the GENESIS transceivers. For wider system integration, PC-based control can be used to manage third-party devices through interfaces such as **RS-232, RS-485, Relay, I/O, and IR**.

With customisable Windows and Android control interfaces, flexible signal routing, multi-user operation, and scalable Gigabit Ethernet architecture, SWNetPro is suitable for control rooms, command centres, monitoring environments, and other professional AV applications requiring centralised and intuitive system control.

Endpoint Model

G265XRTF	
Video Input	1 × HDMI 2.0: Up to 4096 × 2160 @ 60 Hz
Video Output	1 × HDMI 2.0: Up to 4096 × 2160 @ 60 Hz
Video Decoding	Up to 16 simultaneous video streams
Audio Input	HDMI embedded audio; 1 × single-ended stereo; 3-pin Phoenix connectors
Audio Output	HDMI embedded audio; 1 × single-ended stereo; 3-pin Phoenix connectors
Serial Ports	1 × RS-232 & 1 × RS-485: 3-pin Phoenix connectors
Relay	1 × 24 V low-voltage relay: 6-pin Phoenix connectors
I/O	4 × 5 V: 3-pin Phoenix connectors
IR	Shared with I/O
USB	1 × USB 2.0 for PC USB; 2 × USB 2.0 for USB peripherals; 1 × dedicated USB 3.0 for USB pass-through
Network	1 × Gigabit RJ-45; 1 × 1G SFP
Power	PoE: IEEE 802.3af; 12 VDC / 3 A

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Key Feature

All-In-One AV-over-IP Management: Integrates Video Wall Control, KVM Matrix, and 3rd Party System Control in a single platform.

Multi-Interface Video Wall Control: Control the video wall through Windows, Android, or directly from the KVM interface.

Synchronized Control Interfaces: Changes made from Windows, Android, or KVM are synchronized across the system, ensuring consistent layouts and system status.

Integrated KVM & Video Wall Operation: Operate the KVM Matrix and video wall within the same AV-over-IP environment without requiring a separate video wall controller.

No Dedicated Control Hardware Required: The system operates without a separate control box or management appliance between the AV-over-IP transceivers and the control interface, simplifying system architecture and installation.

Customisable Control Interface: Windows and Android control interfaces can be customised to suit different applications, users, and operating environments.

Multiple Video Wall Management: Control multiple independent video walls within the same system, with individual source routing, layouts, and presets for each wall.

Advanced Video Wall Management: Supports flexible window positioning, resizing, layering, multiview layouts, presets, and loop.

KVM Matrix Control: Enables operators to access and control remote PCs using keyboard and mouse over the AV-over-IP network.

Multi-User KVM Collaboration: Supports multiple users and KVM stations with configurable access permissions, signal sharing, and control sharing.

Flexible Signal Routing: Route AV sources to individual displays, video walls, or KVM stations using an intuitive drag-and-drop interface.

Real-Time Source Preview: Preview available input sources before routing them to the required output.

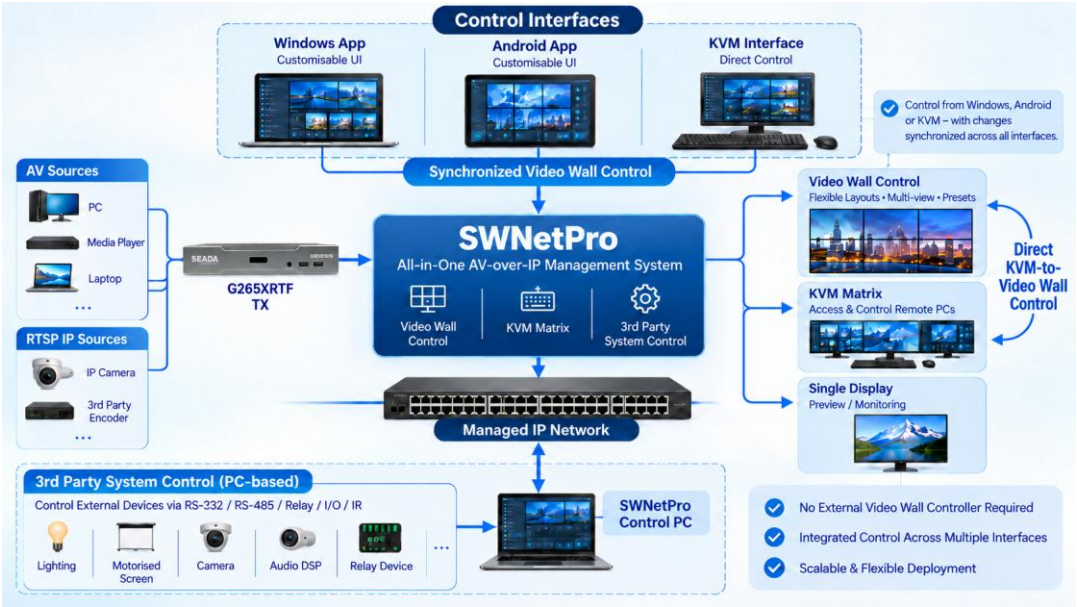
3rd Party System Control: Integrates external AV and environmental devices through RS-232, RS-485, Relay, I/O, and IR using PC-based system control.

Preset & Layout Management: Save, recall, edit, and automatically cycle through customised layouts for fast and repeatable operation.

Scalable Gigabit Ethernet Architecture: Expand the system by adding additional transceivers, sources, displays, and KVM stations over standard Gigabit Ethernet infrastructure.

Designed for Professional AV Environments: Suitable for control rooms, command centres, monitoring environments, and other applications requiring centralised, flexible, and reliable AV control.

System Diagram



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