

## 1U AV Control System with 8 Serial, 8 Relay, 8 IR/Serial & 8 Digital I/O

Rack-mount room controller with up to 16 serial connections and open protocol support



MPN: CR-HOST8R

When a single room runs a dozen devices — matrices, projectors, DSPs, motorized screens, lighting rigs, and stage equipment — integrators need a control processor with the I/O density to handle it all from one rack unit. The KanexPro CR-HOST8R delivers eight serial ports, eight configurable IR/serial outputs, eight relay channels, and eight digital inputs in a standard 1U chassis. The first four COM ports support RS-232, RS-485, and RS-422 with hardware flow control, and every IR output can be reconfigured as a unidirectional RS-232 port — giving integrators up to 16 serial connections from a single device without expansion modules.

Purpose-built for auditoriums, large boardrooms, houses of worship, and campus-wide deployments, the CR-HOST8R runs on an Android 9.0 platform with a quad-core ARM Cortex-A53 processor. Gigabit Ethernet with TCP/UDP/HTTPS/WebSocket provides IP-based control and monitoring, while onboard IR learning captures remote codes from 20KHz to 60KHz. No proprietary programming tools or annual software licenses are required — configuration runs through open protocols and standard interfaces. Powered by AC 110–220V, the CR-HOST8R mounts in any standard 19-inch rack. Where the compact CR-HOST6S serves single rooms, the CR-HOST8R scales to venues where one controller needs to drive everything on stage and in the house.

 <b>8+8+8+8</b> I/O Ports	 <b>1U Rack</b> 440mm	 <b>Up to 16</b> Serial	 <b>GigE</b> TCP/UDP	 <b>AC Power</b> 110-220V
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### KEY FEATURES

- ARM Cortex-A53, Quad-core 1.8GHz, 2GB DDR4 RAM, 8GB eMMC, Android 9
- 8× bidirectional serial — COM 1–4: RS-232/RS-422/RS-485 + HW flow; COM 5–8: RS-232
- 8× IR outputs configurable as one-way RS-232 — up to 16 serial connections total
- 8× isolated relay outputs (30VDC 2A / 125VAC 1A)
- 8× digital I/O inputs for sensors
- Gigabit Ethernet (10/100/1000M) with TCP/UDP/HTTP/WebSocket
- AC 110–220V 50/60Hz power supply (220V/10A AC cord included)
- IR learning (20KHz–60KHz), web server, password protection
- Built-in sync clock, factory reset
- Standard 1U rack mount: 440mm × 200mm × 44mm, 2.1kg

### SPECIFICATIONS

SPECIFICATION	VALUE
<b>Processor</b>	ARM Cortex-A53, Quad-core, 1.8GHz
<b>OS</b>	Android 9
<b>Memory</b>	2GB DDR4 RAM, 8GB eMMC
<b>Serial (COM 1–4)</b>	4× RS-232/RS-422/RS-485 + HW flow (9-pin Phoenix)
<b>Serial (COM 5–8)</b>	4× RS-232 (3-pin Phoenix)
<b>IR/Serial Output</b>	8× IR or one-way RS-232 (2× 8-pin Phoenix)
<b>Relay</b>	8× isolated (30VDC 2A / 125VAC 1A)
<b>Digital I/O</b>	8× input (2× 5-pin Phoenix)
<b>Ethernet</b>	1× Gigabit (10/100/1000M) RJ45
<b>Power</b>	AC 110–220V 50/60Hz — 55W
<b>Other Ports</b>	USB-A (reserved), USB-B (computer), H-NET (reserved), IR Learning, RESET
<b>Dimensions</b>	17.32" × 7.87" × 1.73" (440 × 200 × 44 mm) — 1U rack
<b>Weight</b>	4.63 lbs (2.1 kg)
<b>Housing</b>	Metal enclosure + aluminum front, black
<b>Installation</b>	Standard 19" rack or flat mount
<b>Operating Temp</b>	32°F – 104°F (0°C – 40°C)
<b>Humidity</b>	10%–90% RH (non-condensing)
<b>Package Contents</b>	1× Host, 4× 3-pin Phoenix, 1× 4-pin Phoenix, 2× 5-pin Phoenix, 4× 8-pin Phoenix, 4× 9-pin Phoenix, 2× Mounting Ears, 6× Screws, 1× 220V/10A AC Cord, 1× Manual

