

Compact AV Control Processor with 6-Port Serial, Relay & Dual Gigabit PoE

Programmable room controller for managing matrices, displays, lighting, and automation over IP

MPN: CR-HOST6S



Integrators managing multi-device AV rooms need a control processor that handles the full signal chain — without proprietary programming or per-seat licensing. The KanexPro CR-HOST6S delivers six bidirectional serial ports — five RS-232 and one RS-232/RS-422/RS-485 — letting you control matrices, projectors, DSPs, motorized screens, and third-party devices from a single compact unit. Dual Gigabit Ethernet with PoE keeps deployment clean, while open protocol support (TCP/IP, UDP, HTTP, WebSocket) means the CR-HOST6S works with your existing infrastructure — not against it.

Purpose-built for conference rooms, classrooms, houses of worship, and multi-zone commercial spaces, the CR-HOST6S runs on an ARM Cortex-A55 processor with 4GB RAM and 32GB storage. A built-in web server provides browser-based configuration and real-time port monitoring — no special software required. Dual Gigabit Ethernet enables network segmentation between AV control and corporate LAN, two relay outputs drive screens and lighting, and onboard IR learning captures remote codes on-site. Where competing processors offer one or two serial ports and charge extra for expansion, the CR-HOST6S ships with six — enough to wire an entire room on day one.

 6 Serial COM 1-6	 Dual GigE PoE	 2x IR Learning	 2x Relay + I/O	 A55 4GB Android 11
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KEY FEATURES

- ARM Cortex-A55, Quad-core 1.8GHz, 4GB DDR4 RAM, 32GB eMMC, Android 11
- 6x bidirectional serial ports — COM 1–5: RS-232; COM 6: RS-232/RS-422/RS-485
- 2x IR outputs with IR learning (20KHz–60KHz)
- 2x isolated low-voltage relay outputs
- 2x digital I/O inputs for sensors and dry contacts
- Dual Gigabit Ethernet (10/100/1000M) with PoE
- Built-in web server with password protection and online firmware upgrade
- Built-in RTC real-time clock with power-off retention
- DC 24V/1A or PoE — 6.5W consumption
- USB-C debug port, TF card expansion (reserved), factory reset
- Compact metal enclosure: 145mm × 135mm × 44mm, 710g

SPECIFICATIONS

SPECIFICATION	VALUE
Processor	ARM Cortex-A55, Quad-core, 1.8GHz
OS	Android 11
Memory	4GB DDR4 RAM, 32GB eMMC
Serial (COM 1–5)	5x RS-232 bidirectional (3-pin Phoenix)
Serial (COM 6)	1x RS-232/RS-422/RS-485 bidirectional (5-pin Phoenix)
IR Output	2x (2-pin Phoenix), IR learning supported
Relay	2x isolated low-voltage (2-pin Phoenix)
Digital I/O	2x input (3-pin Phoenix)
Ethernet	2x Gigabit (10/100/1000M) RJ45
Power	DC 24V/1A or PoE — 6.5W
Other Ports	USB-C (debug), TF card (reserved), RESET
Dimensions	5.71" × 5.31" × 1.73" (145 × 135 × 44 mm)
Weight	1.57 lbs (710g)
Housing	Metal enclosure, black
Operating Temp	32°F – 104°F (0°C – 40°C)
Storage Temp	-4°F – 140°F (-20°C – 60°C)
Humidity	20%–80% RH (non-condensing)
Package Contents	1x Host, 2x 2-pin Phoenix, 6x 3-pin Phoenix, 1x 4-pin Phoenix, 1x 5-pin Phoenix, 2x IR Blaster Cable, 2x Mounting Ear, 4x Screw, 2x Hook & Loop, 1x Manual

