

PoE Control Expander with Serial, IR, Relay & Digital I/O

Extend AV control to any location with a single Ethernet cable — web server and API built in
MPN: CR-EXPAND1



PRODUCT OVERVIEW

Every control system hits a wall when the device it needs to manage is across the room — or across the building — from the processor. The KanexPro CR-EXPAND1 puts serial, IR, relay, and digital I/O wherever you need them, powered and connected by a single Ethernet cable. Mount it behind a display, above a projector, or in a remote closet — one PoE drop gives you RS-232/RS-485 for device control, IR output for legacy equipment, two relays for screens and lighting, and a digital I/O port for sensors or contact closures.

Unlike competitors that sell separate boxes for serial, IR, and relay expansion, the CR-EXPAND1 combines all four port types in one compact device. A built-in web server provides browser-based configuration without special software, and open API commands over TCP/UDP mean it works with any IP-based control system. Dual power input (DC 12-24V or PoE) keeps deployment flexible.

1 PRODUCT OVERVIEW

WHO THIS IS FOR

Integrators extending control to remote devices: behind displays, above projectors, in closets, or across buildings.

PROBLEM IT SOLVES

The control processor is in the rack, but the device is 50 feet away. Running serial cable is expensive and limited to ~50ft. The CR-EXPAND1 converts serial to IP over existing Ethernet.

WHAT MAKES IT DIFFERENT

1× RS-232/RS-485 (mode-switching), 1× IR (20-60KHz), 2× relay (30VDC 1A), 1× I/O, 100M PoE. Only 95mm × 68mm × 17mm, 180g. Built-in web server + API.

2 POSITIONING

The single-port remote drop — serial + IR + relay + I/O wherever you need it, powered by one PoE cable.

3 SALES ANALYSIS

CHANNEL FIT Add-on accessory. Every CR-HOST6S/CR-HOST8R project may need 1-4 expanders for remote devices.	DEAL SIZE 1-4 per project. Low unit cost, high attach rate. Sold alongside controllers.
OBJECTIONS "Only 1 serial?" — use CR-EXPAND4 for multi-device locations. "No RS-422?" — RS-232/485 covers 95% of AV devices.	WIN THEMES PoE single cable, tiny form factor, built-in web server + API, 0.96W power.

- 1 Behind-display mount: PoE cable to CR-EXPAND1 behind a commercial display. RS-232 controls power/input. IR for legacy STB. Relay for room lighting.
- 2 Ceiling projector: CR-EXPAND1 above the ceiling tile, PoE from the network switch. RS-232 for projector power/input. Relay for motorized screen.

4 ECOSYSTEM FIT

MODEL	TYPE	BEST FOR
CR-HOST6S	Controller	6 serial, dual GigE, PoE
CR-HOST8R	Controller	8×8×8 I/O, 1U rack, AC
CR-EXPAND1	Expander	Single remote drop, PoE
CR-EXPAND4	Expander	4-port satellite, daisy-chain
CR-TOUCH4A	Panel	4" aluminum, GigE, dual mode
CR-TOUCH6R	Panel	6" landscape, knob, dual serial
CR-KEY8U/E	Keypad	8 buttons, max I/O
CR-KEY10R	Keypad	10 buttons, Android, knob

5 FAQ

Standalone?

Yes — built-in web server + API. Works with any TCP/UDP control system, not just KanexPro.

How small?

3.74" × 2.68" × 0.67" (95 × 68 × 17mm). Fits behind any display.

PoE class?

Standard 802.3af. Only 0.96W consumption.

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