

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



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.

 RS-232/485 Serial	 IR Output 20-60KHz	 2× Relay Outputs	 PoE Single Cable	 Web Server Built-in
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KEY FEATURES

- 1x RS-232/RS-485 bidirectional serial port for device control
- 1x IR output port with 20KHz-60KHz carrier for legacy devices
- 2x low-voltage relays for screens, lighting, access control, and curtains
- 1x digital I/O port for sensor or dry contact monitoring
- 1x 100M Ethernet with TCP/UDP communication and PoE power input
- Built-in web server for browser-based configuration
- Built-in API commands for integration with any IP-based control system
- Dual power supply: DC 12-24V or PoE
- Front panel status LEDs: Power, TX, RX, I/O, IR, Relay 1, Relay 2

SPECIFICATIONS

SPECIFICATION	VALUE
Serial	1× RS-232/RS-485 (5-pin Phoenix, mode-switching)
Baud Rate	2400–115200
IR Output	1× (20KHz–60KHz, 5V blaster)
Relay	2× normally open (30VDC 1A / 125VAC 0.3A)
Digital I/O	1× (input: 24VDC 50mA; output: 5VDC 100mA)
Ethernet	100M RJ45, PoE
Power	DC 12–24V/1A or PoE — 0.96W
ESD	±8kV air / ±4kV contact (IEC 61000-4-2)
Dimensions	3.74" × 2.68" × 0.67" (95 × 68 × 17 mm)
Weight	0.40 lbs (180g)
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	1× Expander, 1× 5-pin Phoenix, 1× 4-pin Phoenix, 1× 3-pin Phoenix, 1× 2-pin Phoenix, 2× Mounting Ear, 4× Screw, 1× Manual



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