

10-Button Programmable Wall Keypad with RS232, IR, Relay & PoE

Linux-Based AV Control Panel with 4× RS232, RS485, Programmable Knob & Magnetic Panel — No Processor Required

MPN: CR-KEY10R



The KanexPro CR-KEY10R is a standalone programmable wall keypad designed to replace expensive proprietary control processors in conference rooms, classrooms, training centers, and exhibition spaces. Built on a Linux-based ARM Cortex-A7 platform with 256MB RAM, it delivers multi-protocol room automation — RS232, RS485, IR, relay, and TCP/IP — from a single flush-mount US 2-Gang wall panel, eliminating the need for a separate control processor or proprietary software.

Featuring 10 programmable buttons and a precision knob with LED feedback for real-time volume or level control, the CR-KEY10R integrates 4× RS232, 1× RS485, 2× IR output, 2× relay, and 2× configurable I/O ports. Powered via PoE or DC 5V, it supports TCP/IP, UDP, HTTP, and WebSocket protocols over its 100Mbps Ethernet port. The magnetic aluminum front panel is field-swappable in black or white, and button labels are customizable for any room configuration. Programming is handled through EASYAccomplish software with web GUI access for network configuration.

 PoE Powered via Ethernet	 10+Knob 10 Buttons + Knob	 4×RS232 Bidirectional Serial	 Linux ARM Cortex-A7 Standalone	 No Proc No External Processor
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KEY FEATURES

- 10 programmable buttons with light status feedback and 1 programmable knob with blue LED progress ring
- 4-channel RS232 and 1-channel RS485 bidirectional serial ports with configurable baud rates (2400–115200 bps)
- 2-channel IR output ports supporting 20KHz–60KHz wideband infrared control
- 2-channel isolated low-voltage relay ports (2A 30VDC / 0.3A 125VAC) for lighting, screens, and curtain control
- 2-channel configurable I/O ports for digital signal input or 5V output (50mA max)
- 100Mbps Ethernet with PoE support — TCP/IP, UDP, HTTP, and WebSocket protocols for network-based device control
- Linux OS on ARM Cortex-A7 (1.2GHz, 256MB RAM/ROM) — standalone operation with no external processor required
- Magnetic aluminum front panel (black or white) with customizable button labels — field-swappable without rewiring
- Programmable via EASYAccomplish software with web GUI for network settings — US 2-Gang / CN 120 wall box installation

SPECIFICATIONS

CPU / OS	ARM Cortex-A7 1.2GHz • Linux • 256MB RAM/ROM
Buttons / Knob	10 programmable buttons • 1 programmable knob (blue LED)
RS232 (COM 1–4)	4× 3-pin phoenix • bidirectional • 2400–115200 bps
RS485 (COM 5)	1× 3-pin phoenix • bidirectional • 2400–115200 bps
IR Output	2× 2-pin phoenix • 20KHz–60KHz carrier
Relay	2× 2-pin phoenix • normally open • 2A 30VDC / 0.3A 125VAC
I/O	2× 2-pin phoenix • configurable input (24V) / output (5V 50mA)
LAN / PoE	1× 10/100M RJ45 • TCP/IP, UDP, HTTP, WebSocket • PoE
Enclosure	Aluminum alloy (front) • Metal (rear) • Black or White front panel
Dimensions / Weight	4.57" × 4.57" × 1.42" (116 × 116 × 36mm) • 0.86 lbs (391g)
Power / Environment	DC 5V/1A or PoE • <5W • 32–104°F • CE, FCC, UKCA

PACKAGE CONTENTS

1× Programmable Control Keypad • 5× 3-pin 3.5mm Phoenix (male) • 1× 4-pin 3.5mm Phoenix (male) • 4× 2-pin 3.5mm Phoenix (male) • 1× 2-pin 3.81mm Phoenix (male) • 4× Wall Mounting Screws • 1× User Manual



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