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Caution: This product contains sensitive electrical components. Use surge protection systems to protect and extend equipment life.

1. Introduction

The KanexPro CR-TOUCH4A is a 4-inch capacitive touchscreen control panel running Android 11, designed to replace traditional button keypads and expensive proprietary touch controllers in conference rooms, classrooms, and smart office environments. Powered by an ARM Cortex-A55 processor with 4GB DDR4 RAM and 32GB eMMC storage, it delivers a fully customizable graphical interface for AV device control via TCP/IP, HTTP, UDP, WebSocket, and RS232 — all from a standard 86 wall box.

The CR-TOUCH4A operates in dual mode: as a standalone touch screen central controller or as a user terminal connected to a host system. Its 720×720 high-resolution display provides intuitive touch-based room control for source switching, volume adjustment, lighting scenes, and display power. Gigabit Ethernet with PoE support enables single-cable installation, while the built-in RS232 port handles legacy serial device control. Programming is handled through EASYAccomplish software available for Windows, Mac, and iOS, with web GUI access for network configuration.

2. Features

- ARM Cortex-A55 architecture, 1.8GHz main frequency
- Android 11 system, 4GB DDR4 RAM, 32GB eMMC Flash
- 4-inch 720×720 (1:1) capacitive touch screen, standard 86 box wall-in design
- One machine with two modes: touch screen central control or user terminal
- 1-channel RS232 serial communication port, configurable baud rate (2400–115200 bps)
- Password-protected host system management web page access
- Customizable interface and function configuration through EASYAccomplish (Windows, Mac, iOS)
- TCP/IP, HTTP, UDP, and WebSocket network protocols
- Gigabit Ethernet (10/100/1000M) with PoE support
- Dual power supply: PoE or 24V DC
- Factory reset support

3. Package Contents

- 1× Programmable Touch Panel (Wall-in)
- 1× 3-pin 3.81mm Phoenix Connector (male)
- 1× 24V/1A Multinational Power Supply (2-pin 3.81mm Phoenix)
- 1× Wall Mounting Bracket
- 2× Bracket Fixing Screws
- 1× User Manual



4. Specifications

SPECIFICATION	VALUE
Technical	
CPU	ARM Cortex-A55, 1.8GHz
Operating System	Android 11
RAM	4GB DDR4
Flash Memory	32GB eMMC
Display Resolution	720×720 (1:1)
Touch Type	Capacitive touchscreen
ESD Protection	IEC 61000-4-2: ±8kV (air-gap) / ±4kV (contact)
Connection	
RS232	1× 3-pin phoenix, bidirectional, 2400–115200 bps
LAN/PoE	1× 10/100/1000M Ethernet RJ45, PoE supported
Power	1× 2-pin phoenix, 24V DC input
Debug	1× Micro USB
Mechanical	
Dimensions	3.39" × 3.39" × 1.73" (86 × 86 × 44mm)
Weight	0.42 lbs (192g)
Housing	Front: Touch screen; Frame: Aluminum alloy; Rear: Plastic
Color	Front: Black; Frame: Apple Gray; Rear: White
Installation	Standard 86 box (UK/CN) wall mount
Power	
Power Supply	24V DC/1A or PoE
Power Consumption	5W
Environmental	
Operating Temperature	32°F–104°F (0°C–40°C)
Operating Humidity	20%–80% RH, non-condensing
Storage Temperature	-4°F–140°F (-20°C–60°C)
Storage Humidity	10%–90% RH, non-condensing

5. Operation Controls and Functions

#	NAME	DESCRIPTION
1	Touch Screen	4-inch 720×720 capacitive touch screen. User control interface is customizable through EASYAccomplish.
2	RESET Button	Press >1s <5s → reboot (user projects not loaded). Press >5s → factory reset (IP → 192.168.0.101, password → "admin"; projects retained).
3	POWER Button	Screen off or wake-up.
4	Micro USB	Reserved for system debugging.
5	LAN/PoE	10/100/1000M Ethernet RJ45 with PoE. Default: DHCP disabled, IP 192.168.0.101, subnet 255.255.0.0.
6	POWER Port	24V DC power input (2-pin phoenix).
7	RS232 Port	1-channel RS232 serial port (3-pin phoenix). Baud rate: 2400–115200 bps. PIN1 = TX, PIN2 = GND, PIN3 = RX.



6. Mounting Instruction

This wall-in touch panel mounts in a standard 86 wall box:

Step 1

Install the included wall mounting bracket onto the 86 wall box and fasten with the 2 bracket fixing screws.

Step 2

Connect the LAN/PoE cable (and optionally the 24V power cable and RS232 cable) to the rear connectors before mounting the panel.

Step 3

Align the back of the touch panel with the slots of the wall bracket and push it in. Press the aluminum edge to ensure the buckles are in place.

Removal: To remove the mounted touch panel, insert a flat screwdriver into the two pry holes at the bottom of the panel and gently pry it out of the wall box.

PoE Tip: For PoE installations, only the LAN/PoE RJ45 cable is needed — no separate power cable required. The included 24V power supply is for non-PoE installations.

US Installation: For US installations, a surface-mount 86 box adapter or retrofit plate would be needed since US standard gang boxes have different screw spacing.

Network Cable: Use direct (straight-through T568B) CAT5e/CAT6 cabling. Do not cross connect.



Front — 86 × 86mm

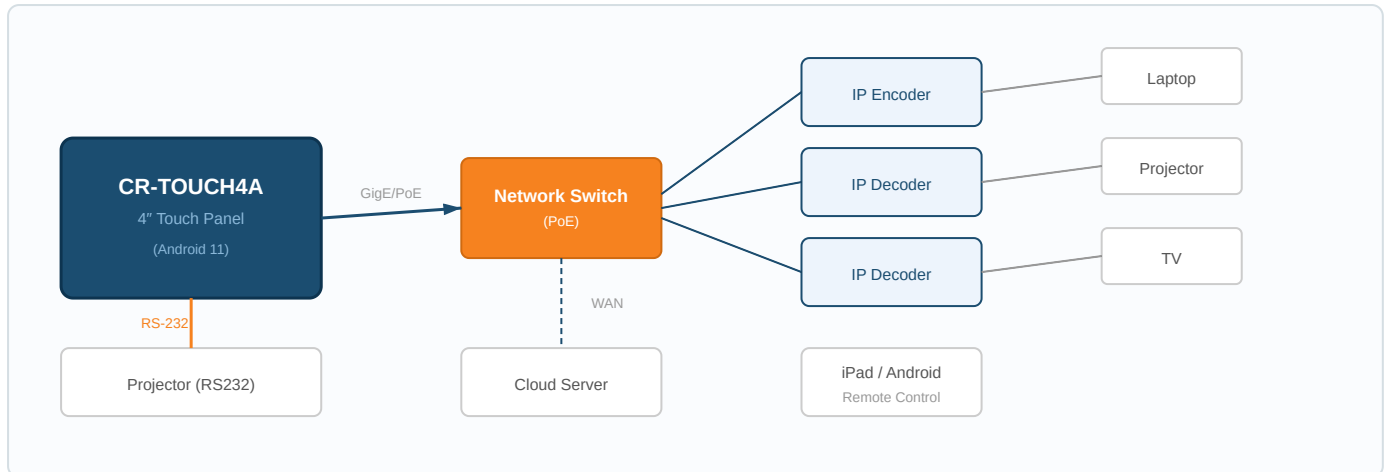


Rear — Depth 44mm



7. Application Example

The CR-TOUCH4A integrates with AV-over-IP systems, matrix switchers, projectors, and lighting controllers via TCP/IP and RS232:



Touch the customizable interface to switch sources, control displays, adjust lighting, and manage room presets. TCP/IP commands route through the network switch to IP encoders/decoders. RS232 handles legacy serial devices like projectors. Cloud connectivity enables remote management and firmware updates. Mobile devices can access the web GUI for remote room control.

8. Troubleshooting

Q: The touch panel does not power on.

A: Verify PoE switch provides adequate power, or check the 24V DC connection. Ensure CAT cable is straight-through.

Q: Touch screen is unresponsive.

A: Press the POWER button to wake the screen. If unresponsive, press RESET for >1s <5s to reboot. Clean the screen surface — moisture or debris can affect capacitive sensing.

Q: Cannot access web GUI at 192.168.0.101.

A: Ensure your PC is on the same subnet (192.168.0.x, mask 255.255.0.0). Connect directly to LAN/PoE port. Disable Wi-Fi. Hold RESET >5s to restore factory defaults.

Q: RS232 commands not reaching the connected device.

A: Verify baud rate matches between the touch panel and target device. Check phoenix connector wiring: PIN1 = TX, PIN2 = GND, PIN3 = RX. Ensure TX on the panel connects to RX on the device.

Q: How do I reset to factory defaults?

A: Press and hold RESET for >5 seconds. IP restores to 192.168.0.101, password resets to "admin." User projects are retained.

