CONTROL SYSTEM · PROGRAMMABLE TOUCH PANEL

BLU-CLT-P10A

A 10″ room controller that speaks IP.

A desktop capacitive touch panel running Android 9 on a quad-core A53. One PoE cable carries power and the network; RS-485, a service port and a reset sit alongside. Build the interface once and drive the whole room.

10″	1280×800	A53 1.8 GHz	Gigabit PoE	6 W
CAPACITIVE TOUCH	RESOLUTION	ANDROID 9	POWER + DATA	MAX DRAW

SPECIFICATION SUMMARY

CPU	ARM Cortex-A53, 1.8 GHz
Operating system	Android 9
Memory	2 GB DDR4 RAM
Storage	8 GB eMMC flash
Display	10″, 1280 × 800
Touch	Capacitive
Network	10/100/1000 RJ45, PoE
Serial	RS-485, 3-pin Phoenix
Service	Micro-USB
Reset	Recessed button

Mounting	Desktop, with base
Front panel	Touch glass, black
Rear case	Aluminium alloy, apple grey
Dimensions	245.4 × 164 × 27 mm
Weight	887 g
Power	24 V DC / 1 A, or PoE
Consumption	6 W maximum
Operating temp.	0 – 40 °C
Humidity	10 – 90 % RH

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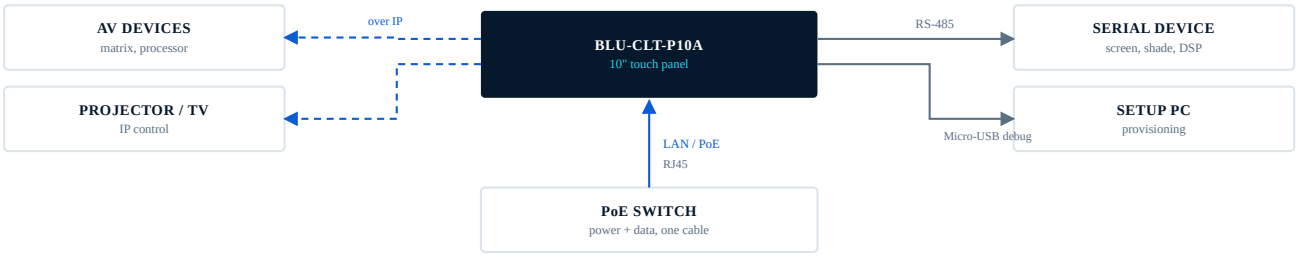
TYPICAL USE

- Meeting and conference rooms
- Multi-media and training rooms
- Smart-home and residential control
- Automated office and BMS front ends

One cable, if you want it. A single PoE switch port carries both power and the control network, so a desktop panel needs no local supply. A 24 V DC input is there when PoE is not.



WHERE IT SITS · POE IN, CONTROL OUT OVER IP AND RS-485

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01 Overview

What the panel is, what it drives, and how it earns its place on the desk.

The **BLU-CLT-P10A** is a programmable 10-inch touch control panel for meeting rooms, multi-media spaces and smart homes. Behind a capacitive glass front it runs **Android 9** on a quad-core Cortex-A53, so the interface is built as an app and laid out to match the room. Over its network and serial ports it presents one screen that routes sources, sets levels, dims lights and drives screens — whatever the installer wires into the user interface.

It ships as a desktop unit with a base. A single PoE connection provides both power and the control network, so the only cable on the desk can be one Cat run back to the switch. RS-485 adds a serial bus for devices that need it, and a micro-USB service port and a recessed reset handle provisioning.

CAPABILITIES

- **Programmable UI** — a configurable interface built over standard control protocols
- **Android 9** on an ARM Cortex-A53 at 1.8 GHz, with 2 GB RAM and 8 GB storage
- **10″ capacitive touch** at 1280 × 800
- **Gigabit Ethernet with PoE** — power and control on one cable
- **RS-485 serial bus** on a 3-pin Phoenix connector
- **Micro-USB service port** and recessed **reset** for setup and recovery
- **24 V DC input** as an alternative to PoE
- **Aluminium-alloy rear case**, black glass front, desktop base
- **Intelligent networking** for multi-device, multi-room control

WHAT IT CONTROLS

- **Over IP** — matrices, AV-over-IP encoders and decoders, projectors, displays and processors on the control network
- **Over RS-485** — projection screens, motorised shades, relays, DSP and other serial devices

AT A GLANCE

OS Android 9	CPU A53 ×4	RAM 2 GB
Flash 8 GB	Panel 10″	Res 1280×800
Net Gigabit PoE	Bus RS-485	Power 6 W

> **Build once, deploy widely.** Because the interface is an app over configuration protocols, the same layout can be pushed to every panel in an estate and updated centrally.

02 Specifications

Full technical, connection, mechanical and environmental figures.

TECHNICAL

CPU	ARM Cortex-A53, 1.8 GHz
Operating system	Android 9
RAM	2 GB DDR4
Flash memory	8 GB eMMC
Resolution	1280 × 800
Touch type	Capacitive touch screen
Screen size	10 inch

CONNECTIONS

RS-485	1× 3-pin Phoenix connector, RS-485 serial data communication
LAN / PoE	1× 10/100/1000M Ethernet RJ45, PoE supported
Power	1× 2-pin Phoenix connector, power supply input
Service	1× Micro-USB, system service and debug port
Reset	1× recessed reset button

MECHANICAL

Housing	Front panel — touch screen Rear case — aluminium alloy
Colour	Front panel — black Rear case — apple grey
Dimensions	245.4 mm L × 164 mm W × 27 mm D
Weight	887 g
Mounting	Desktop, with base

POWER

Power supply	24 V DC / 1 A, or PoE
Consumption (max)	6 W

ENVIRONMENT

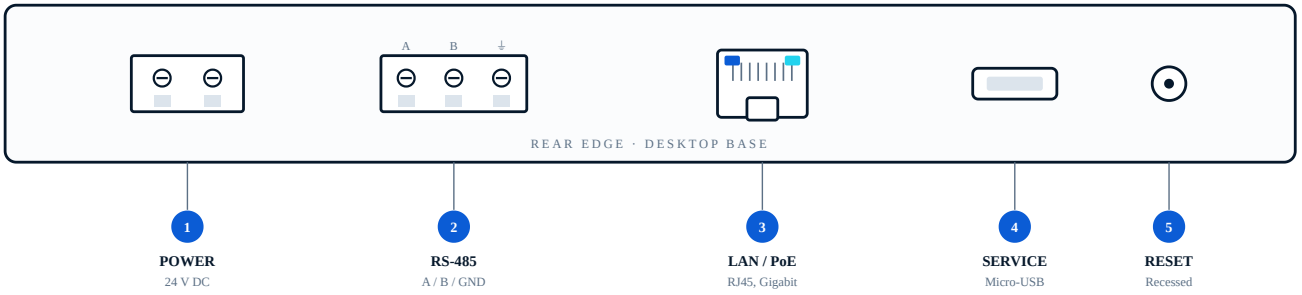
Operating temperature	0 – 40 °C / 32 – 104 °F
Relative humidity	10 – 90 % RH, non-condensing

> **PoE budget.** At 6 W maximum, the panel sits comfortably within an 802.3af (Type 1) port — no high-power PoE needed.

03 Interfaces & setup

Every connector on the panel, what it does, and the order to bring it up.

REAR PANEL · POWER, RS-485, LAN/POE, SERVICE AND RESET



1	POWER	2-pin Phoenix connector for a 24 V DC / 1 A supply. *Optional — leave unused when the panel is powered over PoE.*
2	RS-485	3-pin Phoenix connector for RS-485 serial data. Drives serial devices such as projection screens, shades, relays and DSP.
3	LAN / PoE	Standard 10/100/1000 Mbps Ethernet on RJ45, with PoE. Carries the control network and, on a PoE port, the panel's power on the same cable.
4	SERVICE	Micro-USB service port. Used for provisioning, firmware and diagnostics.
5	RESET	Recessed button. Press to restart the panel or hold to restore defaults.

BRING-UP ORDER

01

Power

PoE port, or 24 V on the 2-pin Phoenix.

02

Network

RJ45 to the control VLAN; note the panel's address.

03

Load the UI

Push the interface app; map buttons to devices.

04

Wire serial

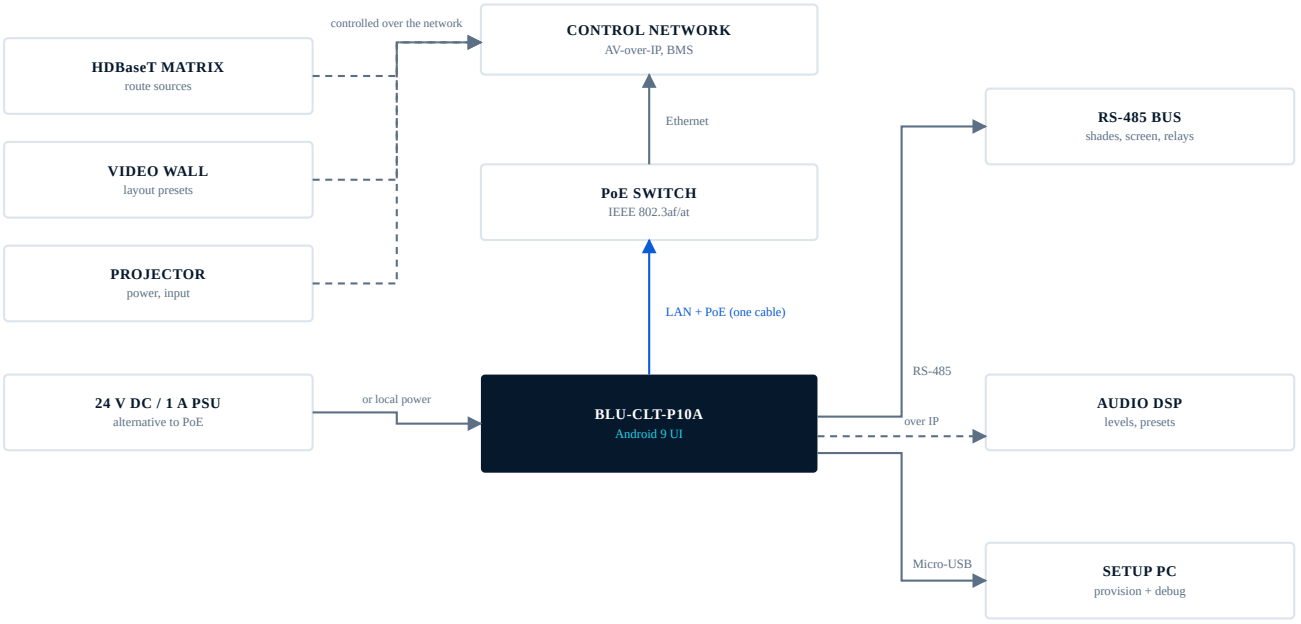
RS-485 to any devices that need a serial path.

NOTES FOR THE INSTALLER

- **Pick one power source.** Use PoE or the 24 V input, not both
- **Keep the panel on the control VLAN** with the devices it drives; IP control needs a clean route to each
- **Observe RS-485 polarity** and terminate long buses; keep serial runs clear of mains
- **Use the service port for setup only** — it is not a runtime connection
- **An 802.3af port is enough** at 6 W; no Type 2/3 PoE required

04 Application example

A room where one panel on the desk drives everything — over the network for AV, over RS-485 for the rest.



One port does the work. A single PoE switch port powers the panel and connects it to the control network in one cable back to the rack.

Two control paths. IP reaches matrices, encoders, projectors and DSP; RS-485 reaches screens, shades and relays that speak serial.

ORDERING

BLU-CLT-P10A	10-inch desktop programmable touch control panel — Android 9, capacitive 1280×800, Gigabit PoE, RS-485, 24 V DC input

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