



SPECIFICATIONS

Control ports

- 4x Bi-directional serial RS-232/422/485, 5-pin connector
- 3x IR /serial output (IR up to 1.2 MHz), 2-pin connector
- 8x General I/O, 9-pin connector, can be configured as
 - Analog input 0 – 20 V, 10-bit AD converter
 - Digital open collector output, max. 24 V / 80 mA
- 12x Digital I/O, 13-pin connector, can be configured as
 - Digital input contact closure / TTL, max. input voltage 24 V, threshold 2 V
 - Digital open collector output, max. 24 V / 80 mA

Power ports

- 8x Potential free relay NC-C-NO, 230 or 110 V, max. 10 A for resistive loads. Max. 400 W per relay for inductive or capacitive loads. Terminals 1.5 mm²

Power output

- 5 VDC, max. 1 A, 2-pin connector
- 12 VDC, max. 400 mA, 2-pin connector

Internal IR sensor

- IR code capture

LED indicators

- Power, CUEnet, CPU, all control ports

Button

- Reset / Set factory default
- 8x Test button for power relay control

Real time and date

- RTC with battery backup

Memory

- Internal RAM 16 MB, Internal flash 16 MB

Software technologies

- Admin Web, XPL2 Inside

System communication

- 10/100 BaseT Ethernet, RJ-45 connector

Power supply

- 24 VDC (+/-20%), 18 W, 2-pin connector 5.08 mm

Physical

- Plastic DIN rail compatible enclosure
- Dimensions
 - 210 x 90 x 58 mm / 8.3" x 3.5" x 2.3"
 - 12 DIN modules 17.5 mm
- Weight 0.5 kg / 1.1 lb

Operating environment

- Temperature 10° to 40° C
- Humidity 10% to 90% non-condensing

MAIN FEATURES

- Ethernet IP enabled controller with power relays
- Control ports - bi-directional serial, IR/serial, general I/O, digital I/O, power relay
- Non-volatile flash memory for user application
- Onboard real time clock
- Firmware upgradable using Admin Web pages
- Fully compatible with current CUE communication buses
- Web server and Admin Web pages for setup and diagnostics
- IR code capture
- Front panel indicators for each control port
- Unified enclosure designed for DIN rail installation
- Compatible with Cue Visual Composer programming only

DESCRIPTION

The ipCUE-sigma is a member of Ethernet IP enabled controller family. The control ports include bi-directional serial channels RS-232/422/485, serial outputs, infrared outputs up to 1.2 MHz, general I/O ports, that can be configured as analog inputs or digital outputs, digital I/O, that can be configured as digital inputs or digital outputs, and 110/230 volts relay outputs. The Ethernet port allows for bi-directional IP control of any manufacturer IP enabled products.

The ipCUE-sigma is fully compatible with CUE's existing range of button panels and touch panels through and comes equipped with a CUEwire port. For convenience there has also been a 5 VDC and 12 VDC outputs added to the design for powering external low-voltage equipment.

The ipCUE-sigma is equipped with internal IR sensor which allows capture IR codes. Convenient for testing and troubleshooting this model also comes with front panel buttons for direct control of relay outputs and it comes also with indicator LEDs that indicate the status of all the control ports. The ipCUE-sigma keeps date and time with its onboard real time clock (RTC) and thus allowing for a wide variety of distributed intelligence scheduling applications.

The ipCUE-sigma comes complete with a web server and allows for setup, configuration, and testing through a standard web browser. This web-based interface allows for the graphical monitoring and control of all ports, which provides a truly time saving method for testing and troubleshooting.

APPLICATIONS

- Complete residential entry-level automation
- High-tech homes
- Commercial single-room applications
- Meeting rooms, conference rooms, boardrooms
- Huge multi-room and multi-floor distributed systems

STANDARD BOX CONTENTS

Controller ipCUE-sigma
Connector set
3x IR Adapter /i
Ethernet cable straight-through
Ethernet cable crossed-over
PEbus Cable Reduction (5-pin connector, 2x RJ-11)
Power supply incl. power cable
Warranty Conditions, CE Declaration, RoHS Declaration
Controller Data Sheet, Cue System Connector Wiring Sheet
CUE Application CD

ORDER INFORMATION

Product code CS0333

APPLICATION NOTE

The relay contacts are constructed for resistive load up to 230 V / 10 A. If these relays are used for the switching of inductive or capacitive loads, voltage or power peaks can occur, which may exceed these parameters even if the load has the stated take-off lower than 230 V / 10 A. We therefore do not recommend using relayCUE-8 for switching inductive or capacitive loads with take-off higher than 400W.

If you need to switch higher inductive or capacitive loads, use contactors. Unlike relays, contactors are designed with features to control and suppress the arc produced when interrupting inductive load currents. You can then use the relay of the unit to control the coil of this contactor.