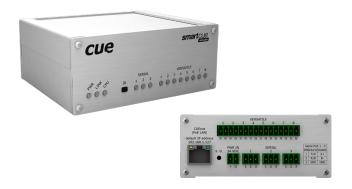
smartCUE-versatile

Lightweight Controller with Serial and Versatile Ports





Main Features

- Wired 10/100 BaseT LAN for CUEnet² system communication
- IP device control and e-mails not supported
- 3x Bi-directional serial RS-232/485 port
- 8x Versatile port
- ARM® processor platform
- Onboard real time clock
- IR code capture sensor
- Front panel indicators
- 24 VDC or Power over Ethernet power supply
- Compact aluminium enclosure for desktop and 19" rack
- Web server and Admin Web pages for setup

Description

The smartCUE-versatile is lightweight controller with eight versatile ports and three bi-directional RS-232/485 control ports. Fully compatible with CUE touch panels, this controller can work as standalone device. Depending on the application each versatile port can be used as an input or output.

Versatile port input modes are as follows

- Digital input for potential free contacts, push-buttons, switches, digital inputs 24 V, SO energy meter outputs, etc. In addition this mode can be used for pulse counting and digital signal frequency measurement.
- Resistance input for temperature sensors, resistors, potentiometers, etc. Standard temperature sensors Pt1000, Ni1000, NTC 12k, KTY 81-121 can be connected and allow temperature measurement.
- Voltage input for sensors equipped with voltage output.
- Current loop passive input for sensors equipped with current loop output 0 / 4 ÷ 20 mA. External resistor is needed for this mode.

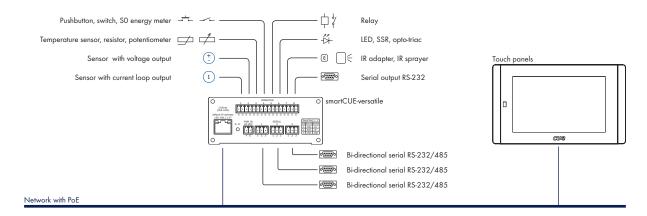
Versatile port output modes are as follows

- Digital open collector for driving a relay coils, LED indicators, LED strips, etc.
- Current-source pull-up for LED, opto-triac, SSR, etc.
- Current-source pull-down for LED, opto-triac, SSR, etc.
- IR output for IR adapters and sprayers.
- Serial RS-232 output for serial controlled devices.

The controller keeps date and time with its onboard real time clock (RTC) and thus allowing for a wide variety of distributed intelligence scheduling applications. Single cable Ethernet connection provides system communication with rest of Cue System. The controller is equipped with Power over Ethernet (PoE) technology enabling an Ethernet network cable to deliver both data and power. The controller installs easily on a table or into a 19" rack.

This controller comes with a web server and allows setup through a standard web browser. Unit programming is based on CUE's standard programming tool Cue Visual Composer.

Application Diagrams



Box Contents

Controller smartCUE-versatile
Connector set
Ethernet cable
Power supply 24 VDC / 24 W
Quick Start
Declaration of Conformity & Warranty conditions

Order Information

Product code CS0491

smartCUE-versatile

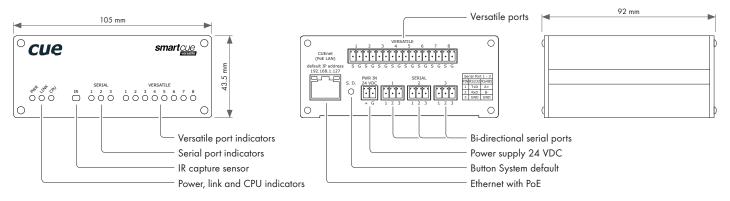
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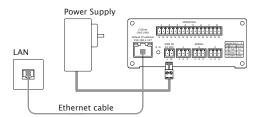
Specifications

Control ports Network 10/100 BaseT Ethernet , RJ-45 connector 3x Bi-directional serial, 3-pin 3.5 mm connector RS-232/485 modes System communication based on CUEnet² only Serial data baud rate 300 Bd ÷ 115 200 Bd (bps) IP device control not supported 8x Versatile, 2-pin 3.5 mm connector, each port can be used as Input protected to 30 VDC / -12 VDC E-mails not supported Internal IR sensor Digital input IR code capture Adjustable threshold LED indicators High sensitivity: binary 0 < 1.45 V, binary 1 > 2.05 V Low sensitivity: binary 0 < 5.8 V, binary 1 > 8.2 V Input impedance >100 kΩ Blue Power - indicates power is presented and unit is ready. Green Link - indicates network link and activity Yellow CPU - confirms the system default function is performed. Adjustable digital filter Green Versatile - indicates output is closed. Digital pulse counter Yellow Versatile - indicates IR or serial data is being transmitted. Green Serial - indicates serial data is being transmitted. Adjustable threshold and input impedance as above Pulse length min. 1 ms, max. frequency 500 Hz Max. number of pulses 2 147 483 647 (Long) Red Serial - indicates serial data is being received. Adjustable digital filter System Default sets default IP address and password. Voltage input Real time and date Range 0 ÷ 2.5 VDC, 0 ÷ 10 VDC, auto RTC with battery backup Input impedance >100 k Ω Software technologies Resolution 10-bit, adjustable digital filter Admin Web Accuracy ±1 % of range (digital filter applied) XPL² inside Power supply 24 VDC (+/-20%), 3 W, 2-pin 3.5 mm connector Resistance input Range 2 $\dot{k}\Omega$, 20 $k\Omega$, 200 $k\Omega$, auto Resolution 10-bit, adjustable digital filter Power over Ethernet, 802.3af compatible Accuracy ±1 % of range (digital filter applied) Digital output Compact aluminium enclosure Open collector Dimensions 105 x 43.5 x 92 mm / 4.14" x 1.7" x 3.6" Max. sink current 200 mA / max. 30 VDC 1/4 rack space, 1 U Catch diodes for use with inductive load Weight 0.3 kg / 0.7 lb Environment conditions Current pull-up Operating temperature 10° to 40° C Current-source pull-up 9 mA (max. 10 V) Current pull-down Storage temperature 0° to 60° C Current-source pull-down -9 mA (max. -10 V) Relative humidity 10% to 90% non-condensing Maximum IR carrier frequency 500 kHz Up to 3 original IR Adapter /i in parallel Serial output RS-232, serial data baud rate 300 Bd ÷ 115 200 Bd (bps)

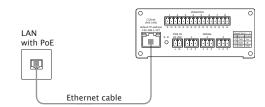
Mechanical Description



Power Supply



Delivered power supply 24 VDC can be used for areas without PoE infrastructure.



The integrated IEEE 802.3af PoE support allows installation in areas where PoE network infrastructure is installed.