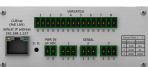
controlCUE-versatile

Ethernet IP Enabled Controller with Serial and Versatile Ports





Description

The controlCUE-versatile is fully functional IP 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. The versatile port is a new type of control port and depending on the application each versatile port can be used as an input or output. Versatile port input modes are as follows

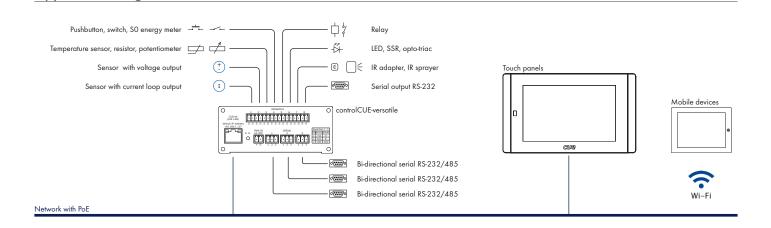
- Digital input for potential free contacts, pushbuttons, switches, digital inputs 24 V, SO energy meter outputs, etc. In addition this mode can be used for pulse counting and digital signal frequency measurement.
- Resistance input for temperature sensors, resistors, potentiometers, etc. Standard temperature sensors Pt1000, Ni1000, NTC 12k, KTY 81-121 can be connected and allow temperature measurement with accuracy 0.5 °C.
- Voltage input for sensors equipped with voltage output.
- Current loop passive input for sensors equipped with current loop output 0 / $4 \div 20$ mA. External resistor is needed for this mode.

- Main Features
- Wired 10/100 BaseT LAN
- 3x Bi-directional serial RS-232/485 port
- 8x Versatile port
- ARM[®] processor platform
- Internal RAM LPDDR 64 MB, flash 256 MB
- Onboard real time clock
- IR code capture sensor
- Front panel indicators
- 24 VDC or Power over Ethernet power supply
- Unified aluminium enclosure for desktop and 19" rack
- Web server and Admin Web pages for setup

Versatile port output modes are as follows

- Digital open collector for driving a relay coils, LED indicators, LED strips, etc. External voltage max. 30 V, max. load is 200 mA.
- Current-source pull-up 12 V / 10 mA for LED, opto-triac, SSR, etc.
- Current-source pull-down -12 V / 10 mA for LED, opto-triac, SSR, etc.
- IR output for IR adapters and sprayers, max. carrier frequency 500 kHz.
- Serial RS-232 output for serial controlled devices,
- baud rate 300 Bd ÷ 115 200 Bd (bps).

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 easy network integration. 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.



Box Contents

Controller controlCUE-versatile 2x IR Adapter /i Connector set Ethernet cable Power supply 24 VDC / 24 W Data Sheet, Cue System Connector Wiring Sheet Declaration of Conformity

Order Information

Product code CS0475

Application Diagrams

controlCUE-versatile

Ethernet IP Enabled Controller with Serial and Versatile Ports



Specifications

Co	ntrol ports
	3x Bi-directional serial, 3-pin 3.5 mm connector
	RS-232/485 modes
	8x Versatile, 2-pin 3.5 mm connector, each port can be used as
	Input protected to 30 VDC / -12 VDC
	Digital input
	Adjustable threshold
	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 k Ω
	Adjustable digital filter
	Digital pulse counter
	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)
	Adjustable digital filter
	Voltage input
	Range 0 ÷ 2.5 VDC, 0 ÷ 10 VDC, auto
	Input impedance >100 k Ω
	Resolution 12-bit, adjustable digital filter
	Accuracy ± 0.1 % of reading, ± 0.1 % of range
	(0.1 ÷ 10 V, digital filter applied)
	Resistance input
	Range 2 k Ω , 20 k Ω , 200 k Ω , auto
	Resolution 12-bit, adjustable digital filter
	Accuracy (digital filter applied)
	100 Ω ÷ 800 Ω : ±3 % of reading, ±0.1 % of range
	800 Ω ÷ 20 k Ω : ±0.3 % of reading, ±0.1 % of range
	$20 \text{ k}\Omega \div 200 \text{ k}\Omega: \pm 1\%$ of reading, $\pm 0.1\%$ of range
	Digital output
	Open collector Max. sink current 200 mA / max. 30 VDC
	Catch diodes for use with real load
	Current pullup
	Current-source pull-up 12 V / 10 mA
	Current pulldow
	Current-source pull-down -12 V / 10 mA
	IR output
	Maximum IR carrier frequency 500 kHz
	Up to 3 original IR Adapter /i in parallel
	Serial output

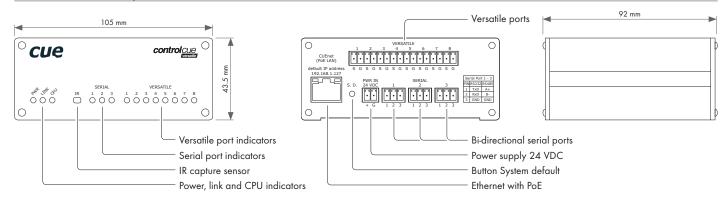
RS-232, serial data baud rate 300 Bd ÷ 115 200 Bd (bps)

Mechanical Description

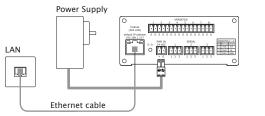
IR code capture LED indicators Blue Power - indicates power is presented and unit is ready. Green Link - indicates network link and activity. Yellow CPU - confirms the system default function is performed. Green Versatile - indicates output is closed. Yellow Versatile - indicates IR or serial data is being transmitted. Green Serial - indicates serial data is being transmitted. Red Serial - indicates serial data is being received. Button System Default sets default IP address and password. Real time and date RTC with battery backup Memory Internal RAM LPDDR 64 MB Internal non-volatile flash 256 MB Software technologies Admin Web XPL² inside System communication 10/100 BaseT Ethernet , RJ-45 connector Power supply 24 VDC (+/-20%), 3 W, 2-pin 3.5 mm connector Power over Ethernet, 802.3af compatible Physical Aluminium enclosure Dimensions 105 x 43.5 x 92 mm / 4.14" x 1.7" x 3.6" 1/4 rack space, 1 U Weight 0.3 kg / 0.7 lb Environment conditions Operating temperature 10° to 40° C Storage temperature 0° to 60° C

Relative humidity 10% to 90% non-condensing

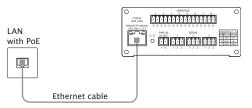
Internal IR sensor



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.