



## Desktop Control Panels

with 12, 24 or 60 LCD Keys and RS232/USB interfaces

# CP0604-SU

Desktop Control Panel  
with 24 programmable,  
**RGB**-backlit  
Sx6432 switches  
and RS232 and USB interfaces

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# GENERAL DESCRIPTION

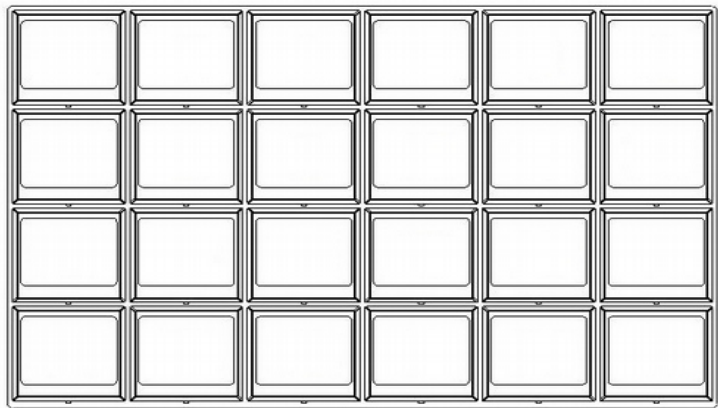
The CP0604-SU is a desktop control panel 24 SB6432 switches keys with integrated power supply and CC0064 controller board with RS232 and USB 2.0 interfaces.



# CP0604-SU

## Layout

6 columns x 4 rows of SB6432 in desktop housing with single cutout.

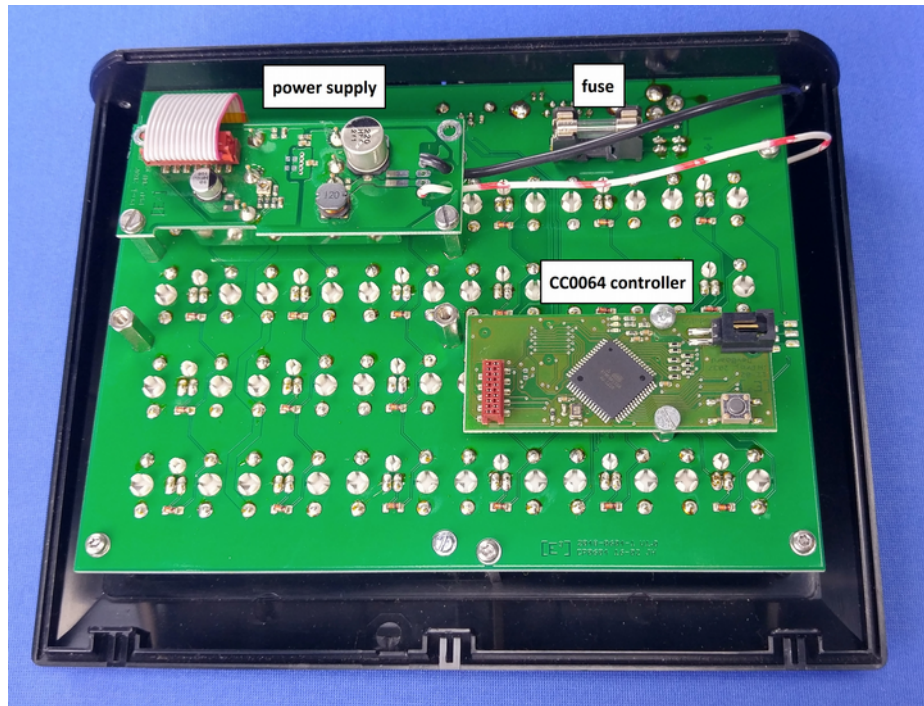


## Key Select Tables

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 |

# Electronics

The CP0604-SU panel is connected to the external host system via RS232 or USB2.0 through the [CC0064 controller board](#).



On PowerUp the CC0064 recognizes either the interface RS232 or USB2.0 that is connected. Only one interface may be connected at the same time.

## Fuse

The power input is connected to a 500 mA fuse before being routed to the Power Supply PS0002.

## Power Supply

The CP0604 is powered by the PS0002 Power Supply.

$V_{in}$  18 – 36 V<sub>DC</sub>

$V_{out}$  5 V<sub>DC</sub>

$I_{out}$  4000 mA

## CC0064 Controller

Controller board for 24 SB6432, RS232 and USB2.0 interfaces with heartbeat and key status (press/release) with on-board memory for bitmaps and colors

**FOR DETAILS ON THE CC0064 CONTROLLER AND ITS COMMAND SET, PLEASE REFER TO THE CC0064 CONTROLLER MANUAL AVAILABLE AT [www.e3-keys.com](http://www.e3-keys.com).**





# Interfaces and Power Connection



## USB2.0

USB connection via USB Type B connector.

## RS232

RS232 9-pin female connector. Only RxD, TxD and Ground are used. All of the other connections are shorted.

Baud rate: 115200 baud

Data format: 8-bit, no parity, 1 stop bit

## Power Connector

Nominal Input of 24V<sub>DC</sub> (power range 18-36V<sub>DC</sub>) via 3.5mm center positive power connector

# NOTICES

## Copyright Notice

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## Technical Notice

This datasheet is intended for technically qualified personnel trained in the field of electronics.

The knowledge of electronics and the technically correct implementation of the content of this datasheet are required for problem free installation, implementation and safe operation of the described product. Only qualified personnel have the required know-how to implement the specifications given in this data sheet.

For clarity, not all details regarding the product or its implementation, installation, operation, or maintenance have been included. Should you require additional information or further assistance, please contact your local [E<sup>3</sup>] distributor or [E<sup>3</sup>] Engstler Elektronik Entwicklung GmbH at [techsupport@e3-keys.com](mailto:techsupport@e3-keys.com). You may also visit our website at [www.e3-keys.com](http://www.e3-keys.com).

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# ORDERING INFORMATION

| Part Number      | Description                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------|
| <b>CP0604-SU</b> | Control panel with 6x52 SB6432 switches                                                                    |
| <b>CC0064-SU</b> | CP controller board with RS232 and USB2.0 interfaces                                                       |
| <b>SB6432-B</b>  | SB pushbutton keyswitch with 64x32 pixel standard LCD and extended feature set<br>Black housing (RAL 9005) |

# CHANGE HISTORY

| Version | Date     | Comments                                                 |
|---------|----------|----------------------------------------------------------|
| 0.1     | 11/02/18 | Initial draft document                                   |
| 1.0     | 11/13/18 | Release version                                          |
| 1.1     | 11/16/18 | Rear view image added and connections aligned with image |
| 1.2     | 07/07/20 | New Formatting                                           |
| 2.0     | 06/07/22 | Updated Version                                          |
| 2.1     | 10/09/24 | New corporate address                                    |

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